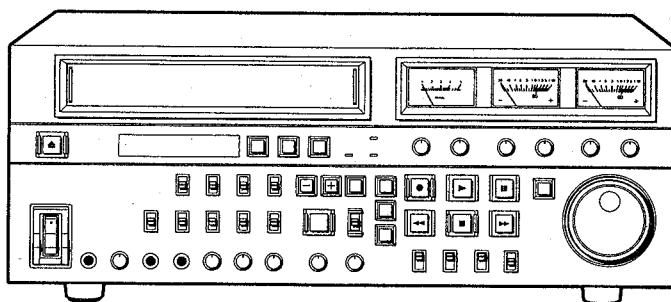




Service Manual

VIDEO CASSETTE RECORDER



S VHS

MODEL

BV-2000E
BV-2000B

Only cassettes marked VHS and S-VHS can be used with this video cassette recorder.

SPECIFICATION

Tape Format	: S-VHS/VHS 1/2" high-density video cassette tape	Video input	: 0.75 to 1.5Vp-p, 75Ω unbalance BNC plug
Power source	: 230V AC; 50Hz	Audio input (line)	: -8dBv, 47kΩ, unbalanced RCA pin plug
Power consumption	: Approx. 45W (0.28A)	(mic)	: -60dBv, 4.7kΩ unbalanced 1/4" phone
Television System	: CCIR PAL, M-SECAM (625 lines, 50 fields) M-NTSC (525 lines, 60 fields)	Video output	: 1.0Vp-p, 75Ω unbalanced BNC plug
Video recording system	: 4 rotary heads, azimuth helical scanning system	Audio output (line)	: -8dBv, 600Ω unbalanced RCA pin plug
Audio recording system (Hi-Fi)	: 2 rotary heads, azimuth helical scanning system Frequency modulation, deep layer recording	(audio monitor)	: -8dBv, 600Ω unbalanced RCA pin plug
Audio recording system (Linear)	: 1 stationary head, 2 track	(head phones)	: ∞-20dBv, 8Ω unbalanced 1/4" phone
Tape speed	: 23.39mm/sec (standard play) 11.70mm/sec (extended play)	Luminance input/output	: 1.0Vp-p 75Ω unbalanced
Record/playback time	: 240 min. with E-240 cassette (SP) 480 min. with E-240 cassette (LP)	Chroma input/output	: 0.3Vp-p 75Ω unbalanced
Heads: Video	: 4 heads	Remote input/output	: D-SUB 9 pin
Hi-Fi Audio	: 2 heads	RS-232C Interface	: D-SUB 25 pin
Audio/Control	: 1 stationary head	Operating Temperature	: 5°C to 40°C
Erase	: 1 full track head 2 flying (rotary) erase heads	Weight	: Approx. 15.5kg
		Dimensions	: 432(W)×168(H)×431(D) [mm]
		Deck	: F Deck

● Weight and dimensions shown are approximate.

● Design and specifications are subject to change without notice.

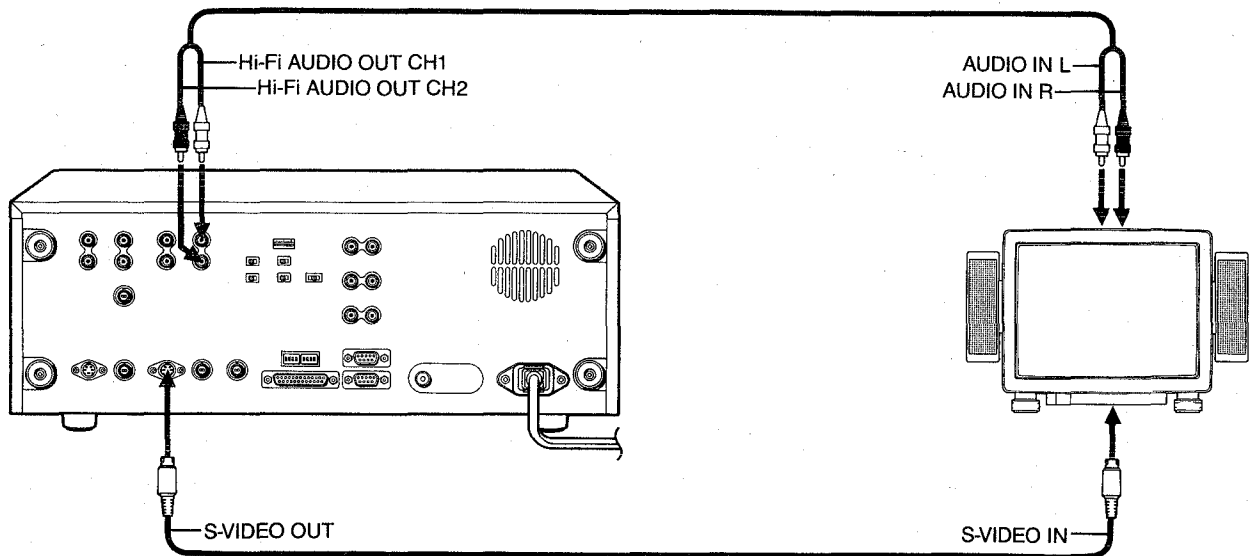
 **mitsubishi ELECTRIC**

CONTENTS

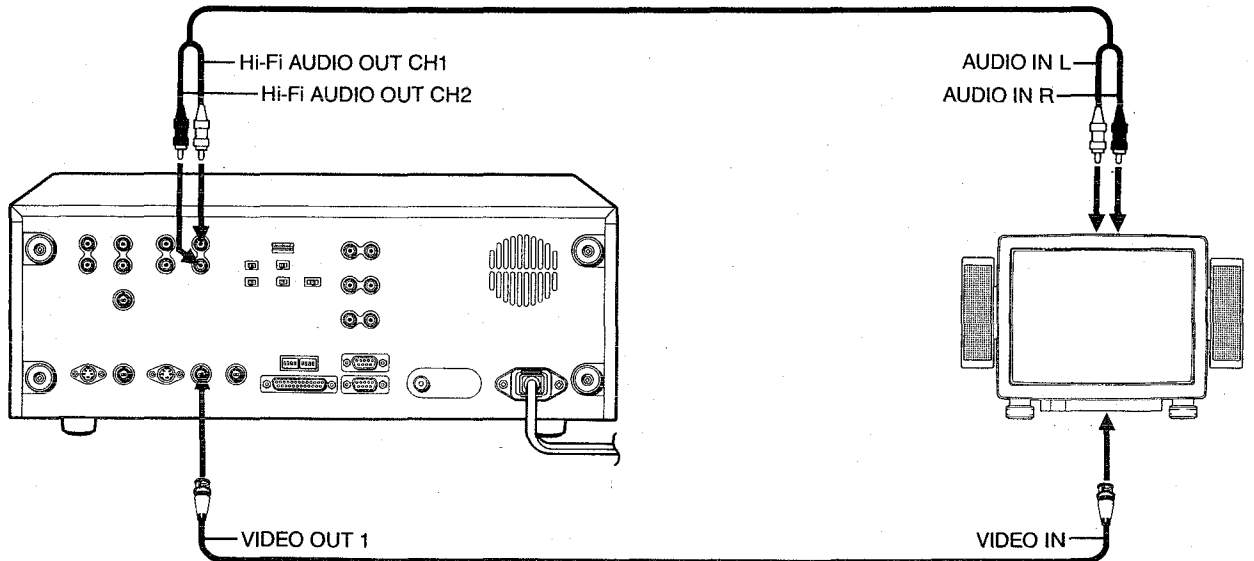
CONNECTION	1	3. Interchangeability Adjustment of	
DISASSEMBLY	2	Mechanism	50
HOW TO EXECUTE CIRCUIT BOARD SERVICE	4	3-1 Adjustment of Back Tension and	
MECHANICAL ADJUSTMENT TOOLS	9	Tension Pole Position	50
ELECTRICAL ADJUSTMENT TOOLS	10	3-2 Check and Adjustment of	
ELECTRICAL ADJUSTMENT	11	FM Envelope	51
Servo Circuit Adjustment	12	3-2-1 Guide Roller Adjustment	51
Y/C Signal Circuit Adjustments	13	3-2-2 Adjustment of Supply Guide	
Normal Audio Circuit Adjustment	28	Roller Height	51
Hi-Fi Audio Circuit Adjustments	31	3-2-3 Adjustment of Takeup Guide	
MECHANICAL ADJUSTMENT AND REPLACEMENT ...	33	Roller Height	51
1. Cleaning of Deck	33	3-2-4 Coarse Phase Adjustment	52
1-1 Video Head	33	3-2-5 Check of FM Waveform Flatness ...	52
1-2 Tape Transport	33	3-2-6 Check 1 : Tape Running	
1-3 Reel Disk Drive System	33	Condition on Guide Roller	53
2. Replacement of Major Parts	34	3-2-7 Replacement of Tape Guides	53
2-1 Cassette Housing	34	3-2-8 Check 2 : Tape Running	
2-2 Lock arm and Drive gear	34	Condition on Guide Roller	53
2-3 Drum Assembly	35	3-3 Adjustment of Audio/Control Head	54
2-4 Upper Drum	36	3-3-1 Adjustment of A/C Head Slant	54
2-5 Reel Belt	36	3-3-2 Adjustment of A/C Head Azimuth	
2-6 Capstan Motor	36	and Height	54
2-7 Loading Motor	37	3-3-3 Replacement of Tape Guides	55
2-8 Pinch Roller	38	3-4 Phase Adjustment	55
2-9 Mode Switch	39	3-5 Adjustment of Takeup Guide	
2-10 Supply Reel Disk	39	Arm Height	55
2-11 Take up Reel Disk	42	GLOSSARY OF ABBREVIATIONS	56
2-12 Head A/C	43	CHIP PARTS REPLACEMENT	57
2-13 Take up Guide Arm	44	PARTS LIST	58
2-14 Deck PCB	45	1. CABINET PARTS	58
2-15 Positioning and Installation Sequence		2. PACKING PARTS	60
of Parts Around Main Cam 1	46	3. ELECTRICAL PARTS	62
2-16 Supply and Takeup Guide Roller	48	4. DECK ASSEMBLY	
2-17 Supply and Takeup Tape Guide		CIRCUIT DIAGRAMS	
Assemblies	48		

CONNECTION

1. When connecting S-VIDEO cable



2. When connecting VIDEO cable



NOTE:

When you are connecting a monitor TV with RCA type connector, attach the BNC—RCA adaptor (supplied) to the BNC type connector on this unit and connect RCA cable. RCA cable is not supplied with this unit.

For monitoring the normal audio output, connect the audio cable to the NORMAL AUDIO OUT on this unit.

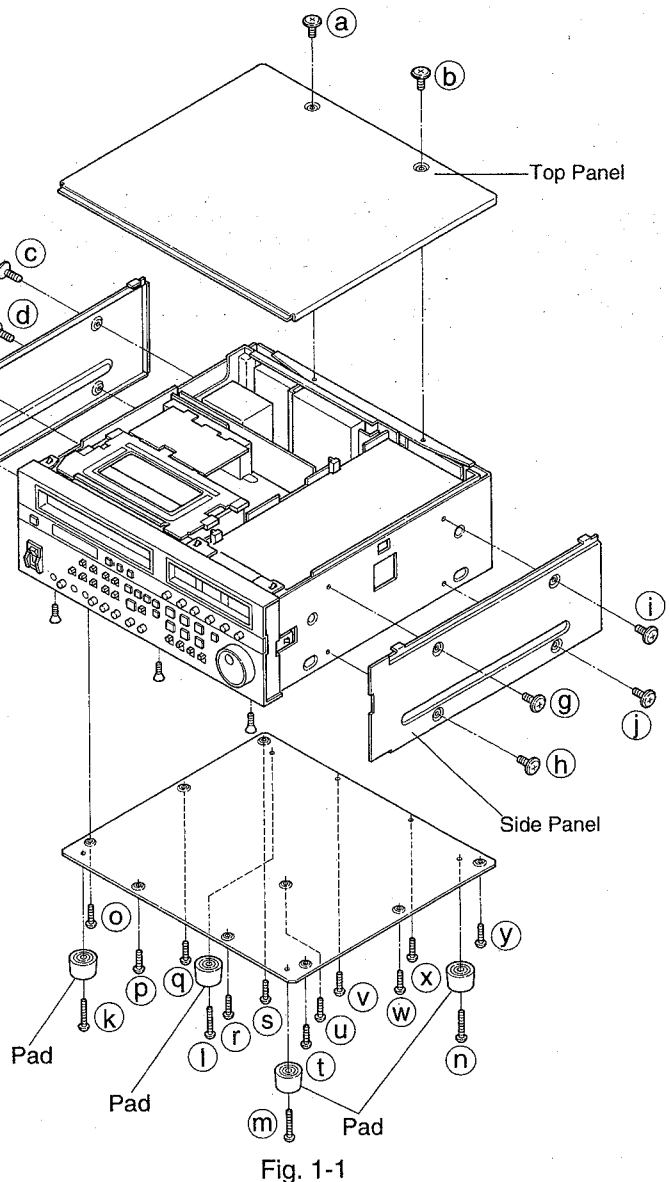
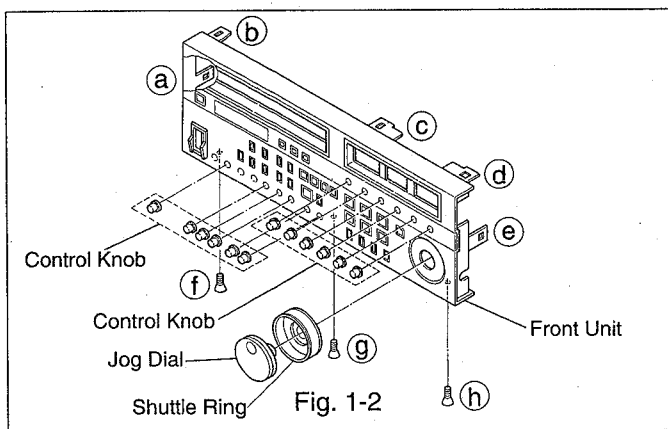
DISASSEMBLY

1. Removal of Top Panel

Remove two screws (a, b), and then the top panel.
(Refer to Fig. 1-1)

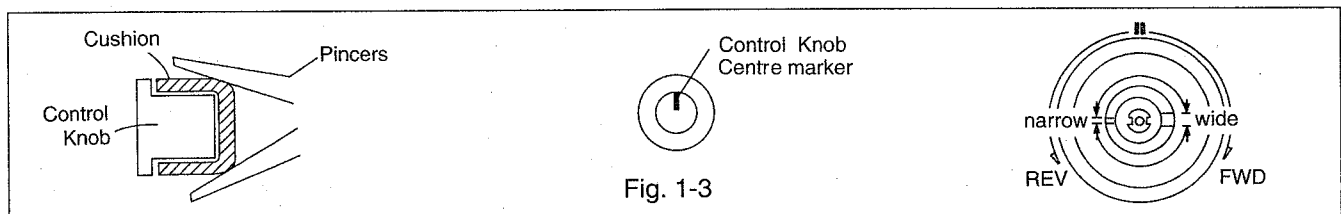
2. Removal of Front Unit

- Remove the top panel.
(Refer to item 1 above)
- Remove eight screws (c~i) of the side panels, and then the side panels.
- Remove twelve control knobs and a jog dial. (Refer to Fig. 1-2)



Note : If a control knob is hard to remove, cover it with a cushion and pull it out with a tool. Repeating the insert and pull out process will make the fitting of the control knobs looser.
A control knob with loose fitting should be replaced. (see Fig. 1-3):

- Insert a control knob by aligning the marking of the knob to the mechanical center of the control.
- Insert the shuttle ring, matching the shape of recession. (See Fig. 1-3)



D. Remove three screws (f~h) of the front unit. (Refer to Fig. 1-2)

E. Unfasten five snaps (a~e) of the front unit and remove the front unit. (Refer to Fig. 1-2)

3. Removal of Bottom Cover

Remove eleven screws (k~n) of the bottom cover, and then the bottom cover. (Refer to Fig. 1-1)

4. Removal of Pads

Remove four screws (o~y). (Refer to Fig. 1-1)

5. Removal of Pads and Rear Panel

- A. Remove four screws (a~d) of pads.
(Refer to Fig. 2-1)
- B. Remove eight screws (a~h) of the rear panel.
(Refer to Fig. 2-2)

6. Removal of Fan Motor

- A. Remove top panel. (Refer to item 1)
- B. Remove side panels. (Refer to item 2)
- C. Remove two screws (e, f).
(Refer to Fig. 2-1)
- D. Remove four screws (g~j) of the rear plate.
(Refer to Fig. 2-1)
- E. Remove four screws (k~n) of the fan motor.
(Refer to Fig. 2-1)

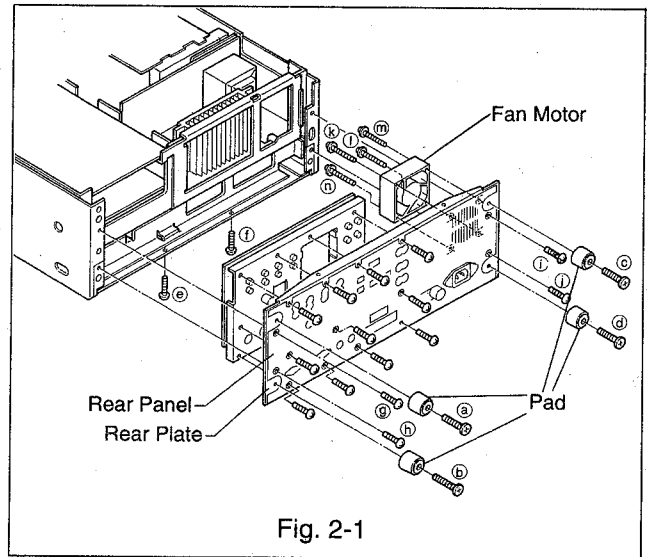


Fig. 2-1

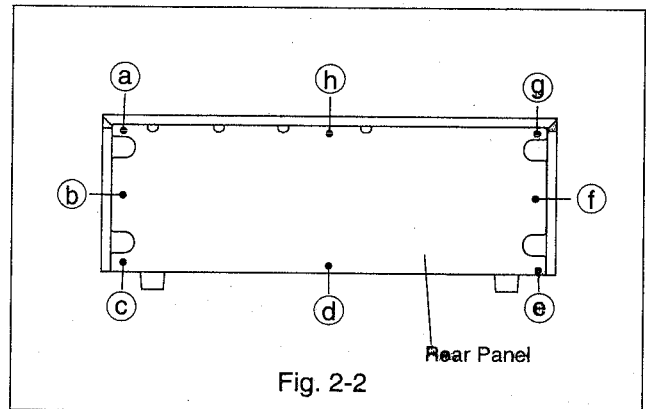


Fig. 2-2

SERVICING THE PRINTED CIRCUIT BOARDS

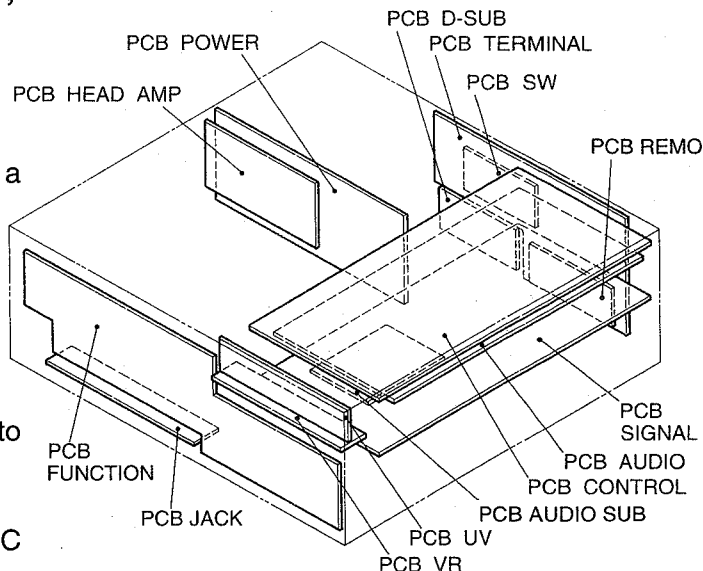
CAUTION: BEFORE ATTEMPTING TO REMOVE OR REPAIR ANY PCB, DISCONNECT UNIT FROM THE A.C. SOURCE.

Location of Printed Circuit Boards.

The PCB SIGNAL and PCB CONTROL comes as a pair and are denoted as PCB MAIN.

Caution :

- Unnecessary disconnecting FPC cables will cause contact failure.
- A FPC cable must be inserted or pulled out parallel to the connector.
Be sure that a FPC cable is inserted firmly.
- When finished servicing a PCB, make sure all FPC cables and leads are in place.



1. PCB CONTROL

- Remove the top panel.
(Refer to item 1 in "DISASSEMBLY")
- When servicing from solder side :
 - Remove two screws (a, b).
Unfasten one snap (c) of the side panel.
Pivot the PCB CONTROL in the direction of the arrow A.
(Refer to Fig. 3)
Put an insulating seat between the PCB CONTROL and the deck unit.
 - Unfasten seven snaps (d~j).
Pivot the PCB AUDIO in the direction of the arrow B.
Put an insulating seat between the PCB CONTROL and the PCB SIGNAL.

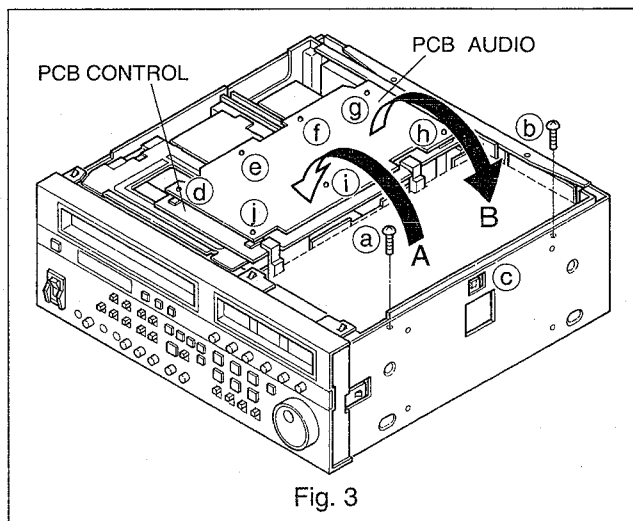


Fig. 3

2. PCB AUDIO

- Pivot the PCB CONTROL.
(Refer to "1. PCB CONTROL")
- When servicing from solder side :
 - Unfasten seven snaps (a~g).
(Refer to Fig. 4)
Pivot the PCB AUDIO in the direction of the arrow.

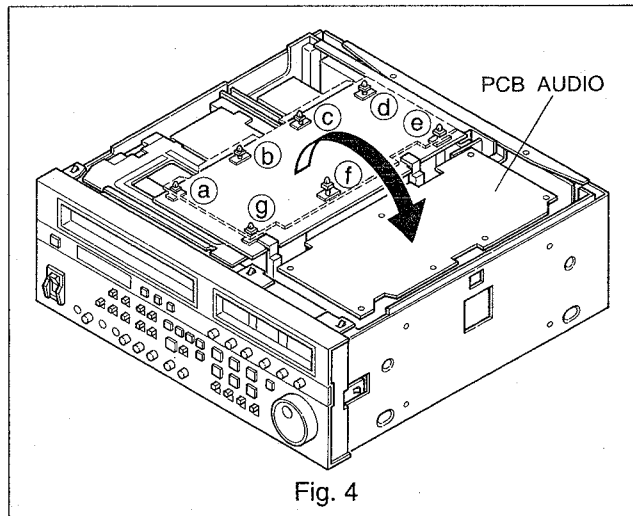
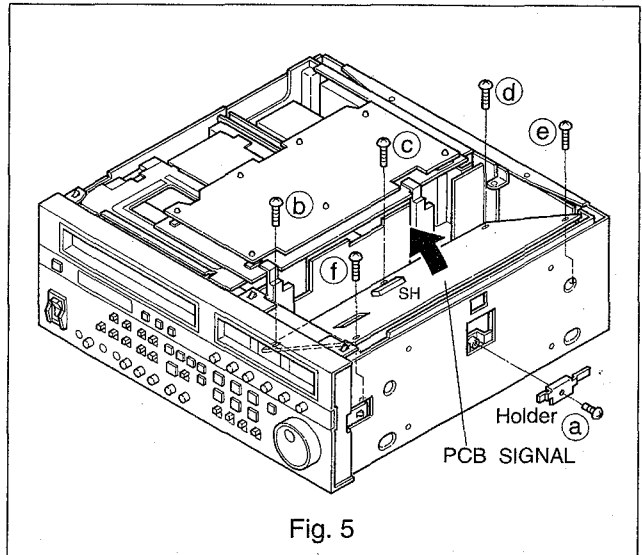


Fig. 4

Note: Put an insulating seat between the PCB AUDIO and the PCB SIGNAL.

3. PCB SIGNAL

- A. Pivot the PCB CONTROL.
(Refer to "1. PCB CONTROL")
- B. When servicing from solder side
(Refer to Fig. 5):
 - a. Remove the right side panel.
(Refer to item 2 in "DISASSEMBLY")
 - b. Remove one screw (a), and then the holder.
 - c. Remove five screws (b~f) of the PCB SIGNAL.
 - d. Disconnect the SH connector lead and hang the PCB SIGNAL in the direction of the arrow.
 - e. Insert the SH connector lead from the side of the unit of the PCB SIGNAL.

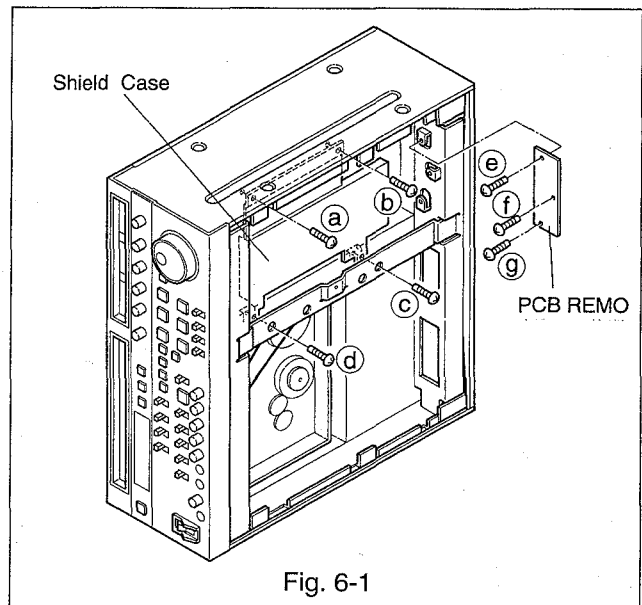


4. PCB AUDIO-SUB

The PCB AUDIO-SUB and shield case comes as a pair and are denoted as PCB AUDIO-SUB.

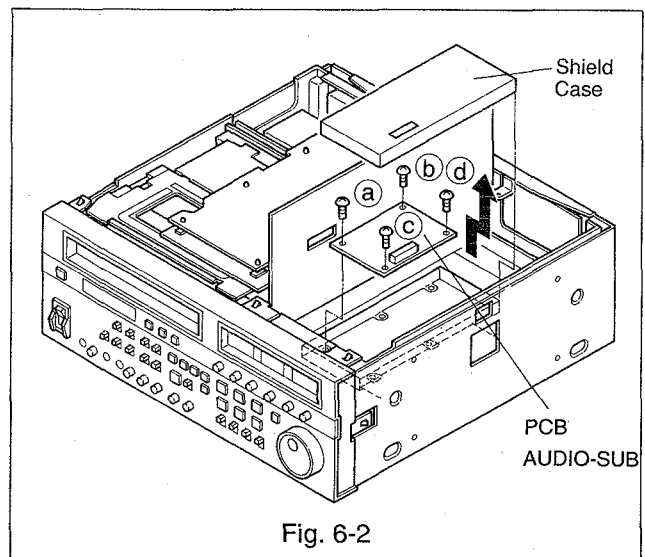
- A. When servicing from solder side
(Refer to Fig. 6-1):
 - a. Remove the bottom panel.
(Refer to item 3 in "DISASSEMBLY")
 - b. Remove the shield case.
- B. When servicing from part side
(Refer to Fig. 6-2):
 - a. Hang the PCB SIGNAL.
(Refer to "3. PCB SIGNAL")
 - b. Remove the shield case.

Note: When removing the PCB AUDIO-SUB only, remove four screws (a~d) shown in Fig. 6-2.



5. PCB REMO

- A. Remove the bottom panel.
(Refer to item 3 in "DISASSEMBLY")
- B. Remove three screws (e~g) of the PCB REMO.
(Refer to Fig. 6-1)



6. PCB FUNCTION

- A. Remove the front unit.
(Refer to item 2 in "DISASSEMBLY")
- B. Remove six screws (p~u) of the plate.
(Refer to Fig. 7-1)
- C. When servicing from solder side :
 - a. Remove fifteen screws (a~o) of the PCB FUNCTION. (Refer to Fig. 7-1)
 - b. Remove six clamps (a~f) of the PCB SIGNAL. (Refer to Fig. 7-2)
 - c. Cut a band (g) binding leads.
(Refer to Fig. 7-2)
 - d. Disconnect connectors, M6, MB, MZ, MJ, MY and MQ.
 - e. Hang the PCB FUNCTION in the direction of the arrow to see the solder side.
 - f. Insert connectors, M6, MB, MZ, MJ, MY and MQ.

Note: After servicing, replace the band(g) that was cut during service with a new one and binding the leads again.

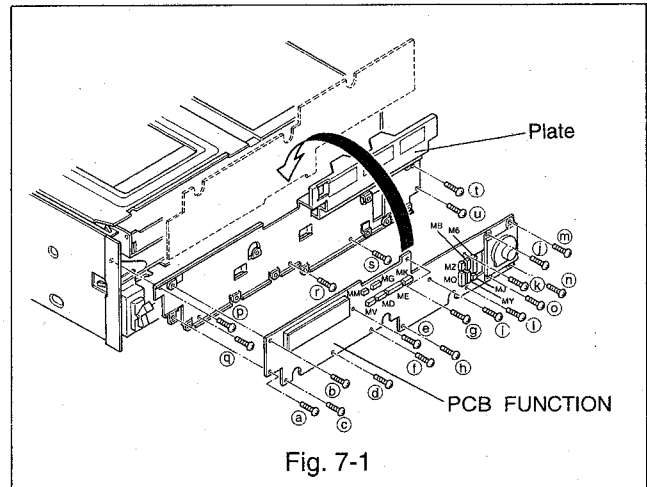


Fig. 7-1

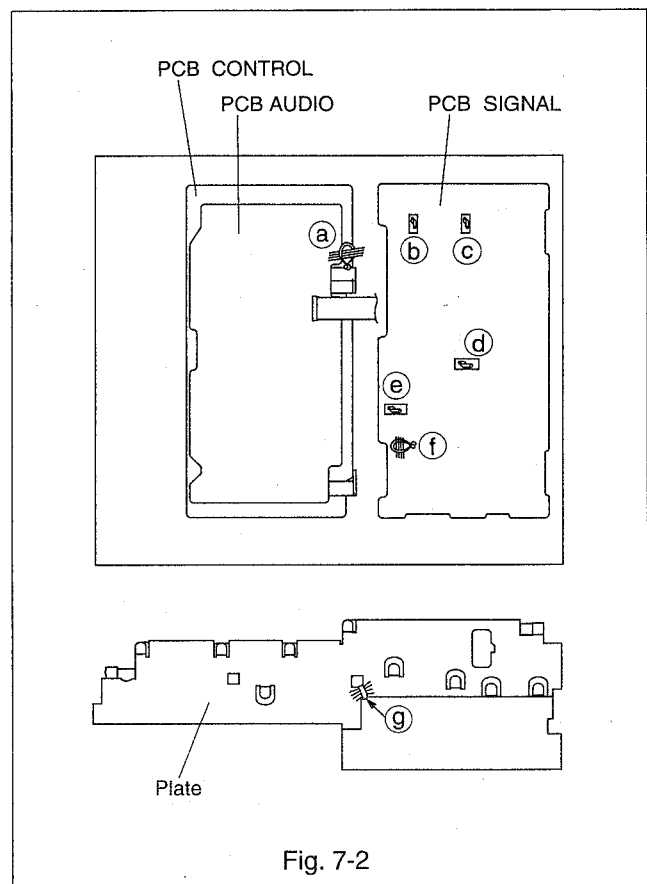
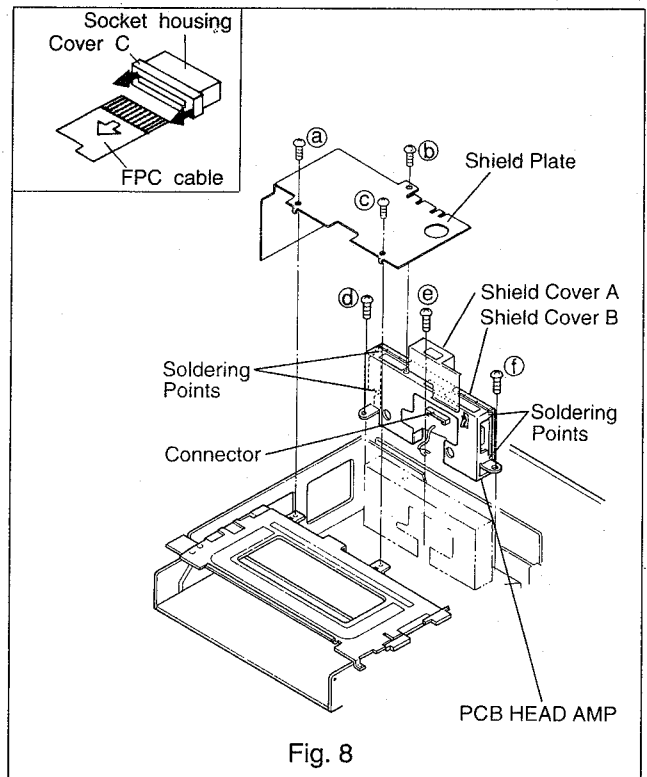


Fig. 7-2

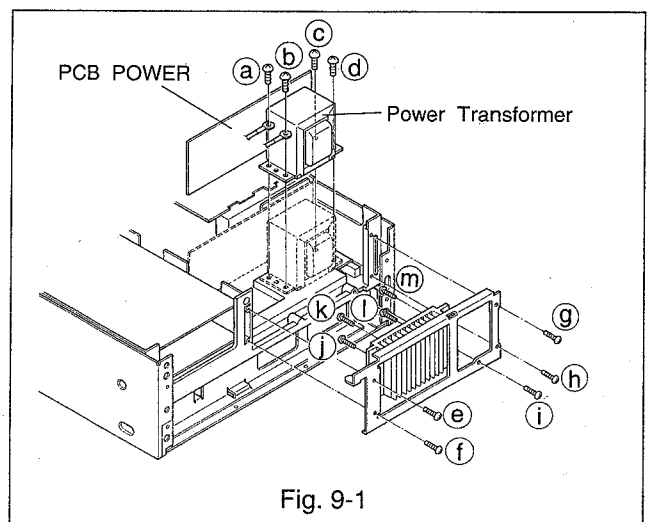
7. Removal of PCB HEAD AMP

- A. Remove the top panel.
(Refer to item 1 in "DISASSEMBLY")
- B. Remove three screws (a~c) and remove the shield plate, as shown in Fig. 8.
- C. Lift the shield cover A upward to remove it.
- D. Disconnect the FPC cable by gently pulling cover C on the socket housing as shown in Fig. 8.
- E. Remove three screws (d~f) retaining the ground wire and the PCB HEAD AMP.
- F. To service the solder side, remove the shield cover B, use the extension cord (859C344O50) and a short-lead to the ground lead, removed in above para. E.
- G. To service the component side, unsolder the four soldering points of the shield case and remove it.



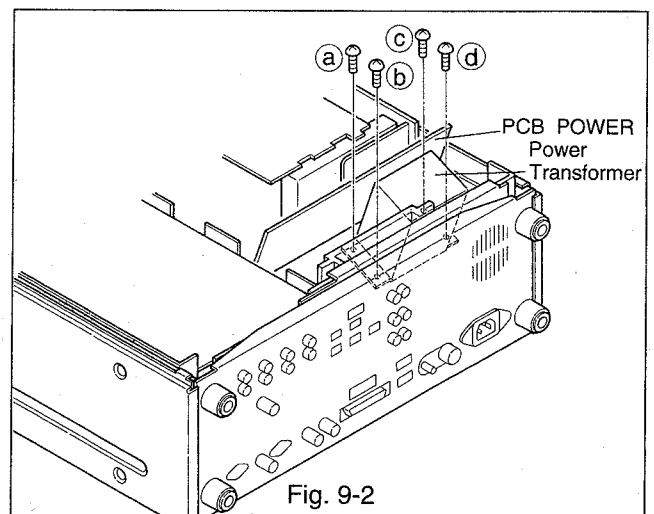
8. PCB POWER

- A. Remove the top panel.
(Refer to item 1 in “DISASSEMBLY”)
- B. Remove four screws (a ~ d) of the power transformer. (Refer to Fig. 9-1)
- C. When servicing from copper solder side :
 - a. Pivot the PCB POWER to the side.
(Refer to Fig. 9-2)
 - b. Connect the ground lead to the power transformer with a short-lead.
- D. Disconnect all connectors on the PCB POWER allow it to hang.



9. Transistors (Q903 ~ Q906)

- A. Remove the rear panel.
(Refer to item 4 in "DISASSEMBLY")
- B. Remove five screws (Ⓔ~Ⓘ) of a radiator.
(Refer to Fig. 9-1).
- C. Remove four screws (⓫~ⓓ) of the transistors.



10. PCB TERMINAL and PCB SW

- A. Remove the top panel.
(Refer to item 1 in "DISASSEMBLY")
- B. Remove the side panels.
(Refer to item 2 in "DISASSEMBLY")
- C. Remove the six screws (①~⑨) of the rear assy.
(Refer to Fig. 10-1)

Note: This allows the PCB TERMINAL and rear panel to be removed.

- D. Remove the eleven screws (a~k) of the terminal assy. (Refer to Fig. 10-1)
- E. Remove the four screws (a~d) of the PCB SW. (Refer to Fig. 10-2)
- F. Remove the two screws (g, h) of D-SUB connector and the two screws (e, f) of PCB D-SUB. (Refer to Fig. 10-2)
- G. Remove the eleven screws (i~s) of the PCB TERMINAL. (Refer to Fig. 10-2)
- H. Remove the seven soldered points (a~g). (Refer to Fig. 10-3)

Note: When replacing the PCB TERMINAL with a new one, solder the five BNC pins (a~e) and tighten the two screws (f, g) on it.

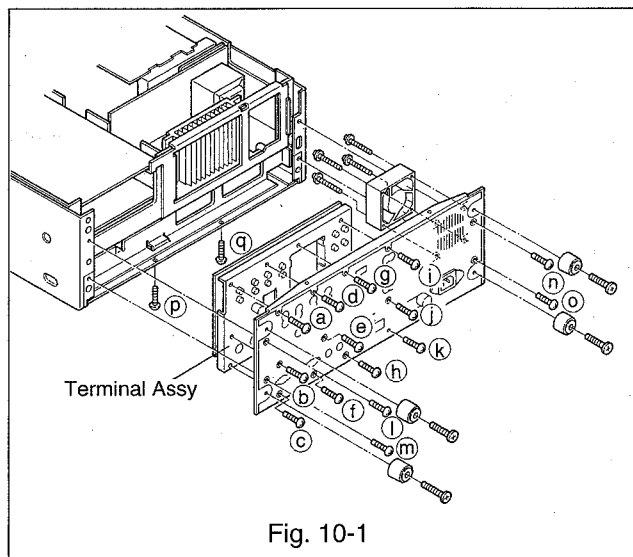


Fig. 10-1

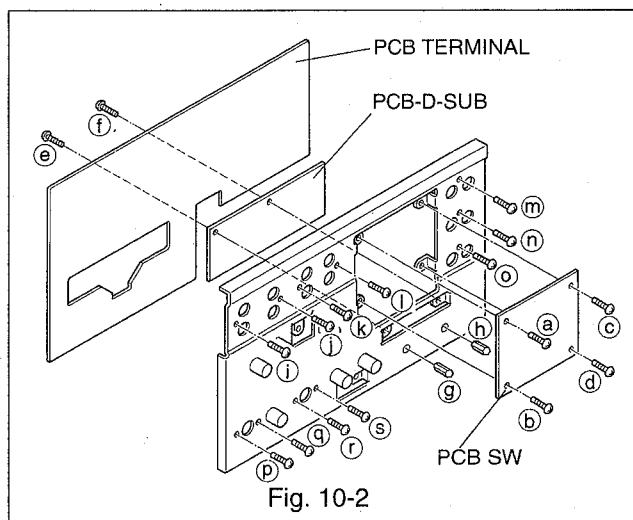


Fig. 10-2

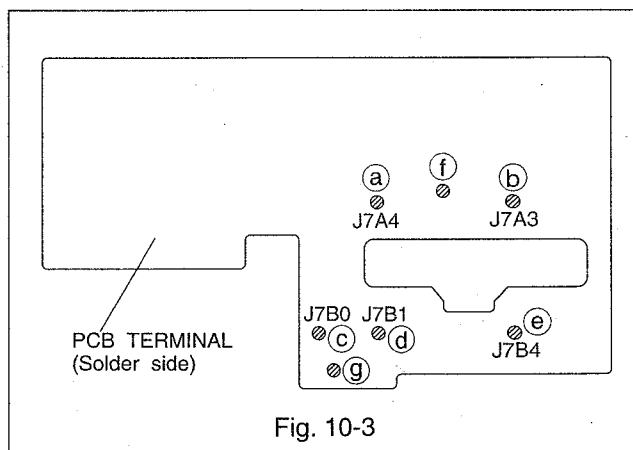
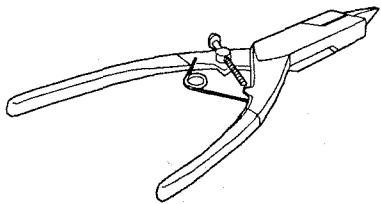
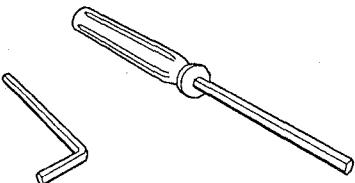
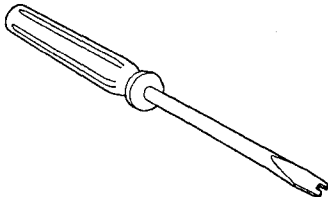
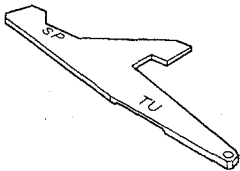
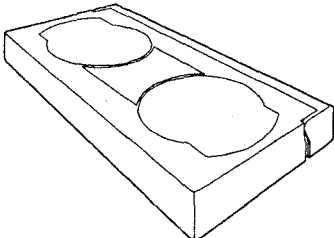
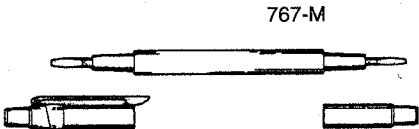
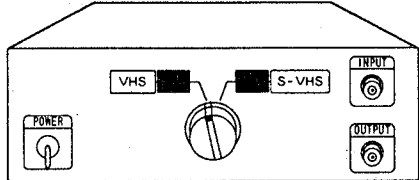
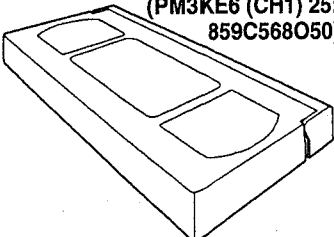


Fig. 10-3

MECHANICAL ADJUSTMENT TOOLS

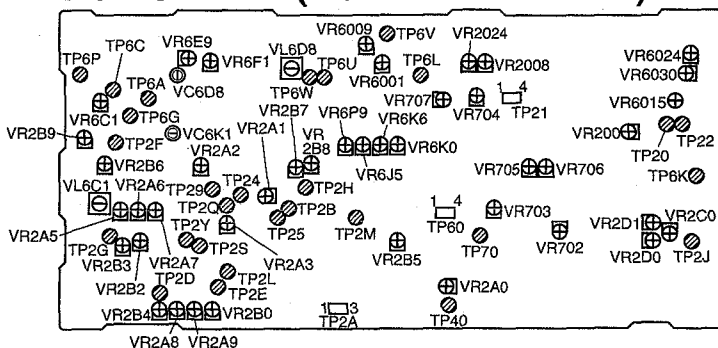
	PURPOSE	METHOD
Grip ring fixer (859C347O50) 	A tool for preventing the grip ring from opening excessively.	While opening the grip ring with the tips of this tool, install the grip ring on to the shaft.
Hex Keys(1.5mm)  (859C259O20) (859C259O50)	The hex keys are used for tightening or removing hexagonal socket head screws which fasten the guide rollers.	Insert the given size(1.5mm) hexagonal socket and turn.
Adjustment Driver (859C259O80) 	For adjustment of guide rollers.	Carefully insert and adjust guide rollers.
Reel disk Adj. Jig (859C342O20) 	The height gauge is used for measuring height and perpendicularity of the reel disk and Take up guide arm.	The gauge is applied to the part being measured.
BackTension Gauge (859C345O80) 	The back tension gauge is used for measuring the tension of the tape on the supply side.	Load this gauge in the cassette housing and run in the play mode. Read the gauge indicator.
Extension Cord (859C344O50)	For PCB HEAD AMP service.	Use when repair of the PCB Head Amp is necessary.
Cotton gloves	For changing, cleaning and handling of drum, heads and guides.	Use when handling all parts in the tape path.

ELECTRICAL ADJUSTMENT TOOLS

	PURPOSE	METHOD
Adjustment Driver (859C338O00)  <p>767-M</p>	<p>The adjustment driver is intended to adjust variable resistors, trimmers, transformers etc. in the circuitry.</p>	<p>Select a tip suitable for the particular head of the component concerned and adjust.</p>
Carrier Checker (859C346O50) 	<p>Used for the adjustment or inspection of the carrier set deviation.</p>	<p>Use in conjunction with the oscilloscope. For detail refer to the service manual or the attached data.</p>
Alignment Tape (NTSC:859C339O00) (PAL:859C339O10) (PM3KE6 (CH1) 25: 859C568O50) 	<p>Standard signals(VHS Standard) are recorded on the alignment tape and reproduced when required in the adjustment of Y/C circuit, audio circuit and interchangeability alignment.</p>	<p>Install and run in the play mode, the same as for an ordinary tape.</p>

Circuit adjustments become necessary, in most cases, due to the wear of mechanical parts or following the replacement of critical components such as the video head. Certain circuit defects can often cause circuit adjustments to vary considerably. Should this occur, be sure to determine the nature of the defect and repair prior to proceeding with adjustments.

PCB SIGNAL (COMPONENT SIDE)



Top view of the IC5A0 showing pin locations and labels:

- IC5A0
- IC4A3
- IC4A0
- IC4A4
- VR4A0
- VR5A0

VR202 TP2XY
(2X,2Y,G,3U,3T) VR301

VR201

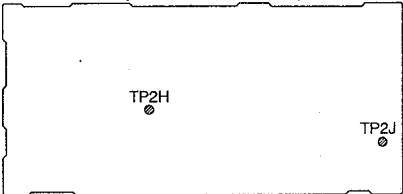
IC201

IC301

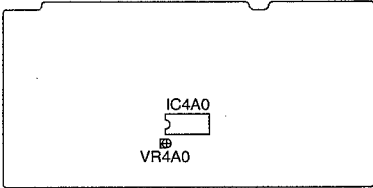
[Servo Circuit] 1. Playback Switching Point		Adjustment purpose: Video switch over timing during playback. Symptom when incorrectly adjusted: Switching noise or jitter on the reproduced picture.	
Measuring instrument and Point		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	---
Test point	TP2J	Using tape	Alignment tape (PAL grey scale step)
EXT trigger	TP2H	VCR condition	SP Playback
Measurement range	DIV 50mV TIM 0.1ms	Using Jig.	---

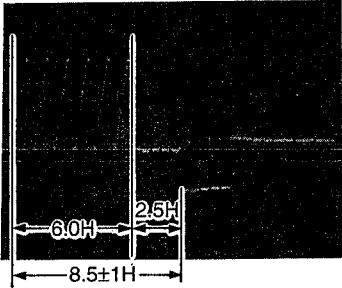
1. Pull the AUTOTRACKING control to set MANUAL mode, then set the control to the centre click position.
2. Observe TP2J.
3. Set the oscilloscope's slope to (-).
4. Adjust VR4A0 on so that the trigger point is located at $8.5 \pm 1.0H$ before the vertical synchronizing signal.

PCB SIGNAL (COMPONENT SIDE)



PCB CONTROL (COMPONENT SIDE)

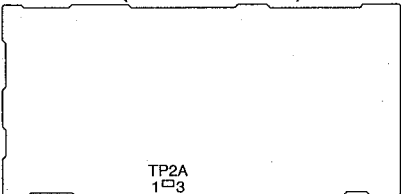




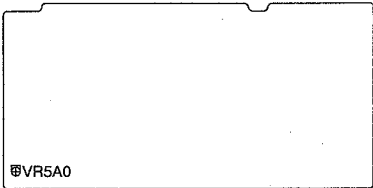
2. Tracking Preset		Adjustment purpose: Setting phase of capstan servo. Symptom when incorrectly adjusted: S/N ratio of video signal worse.	
Measuring instrument and Point		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	---
Test point	TP2A pin①	Using tape	Alignment tape (PAL colour bar)
EXT trigger	TP2H	VCR condition	SP Playback
Measurement range	DIV 5mV TIM 2ms	Using Jig.	---

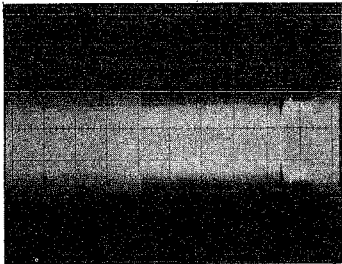
1. Pull the AUTOTRACKING control to set MANUAL mode, then set control to the centre click position.
2. Observe TP2A pin①.
3. Adjust VR5A0 so that the amplitude of the waveform is maximum.

PCB SIGNAL (COMPONENT SIDE)



PCB CONTROL (COMPONENT SIDE)



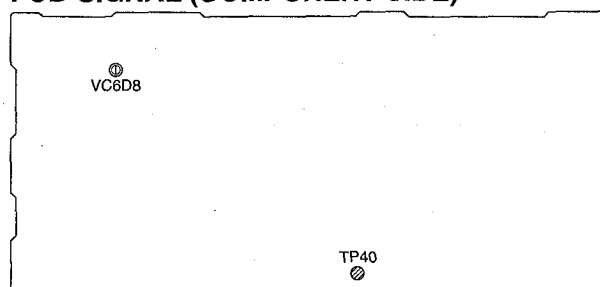


[Y/C Signal Circuit] 3.Chroma X'tal OSC		Adjustment purpose: Adjust regular chroma's X'tal OSC. Symptom when incorrectly adjusted: Miss in control servo or hue become unnatural colour image.	
--	--	--	--

Measuring instrument and condition		VCR set up condition	
Frequency counter		Input signal	---
Test point	TP40	Using tape	Alignment tape (PAL colour bar)
EXT trigger	---	VCR condition	SP Playback
Measurement range	---	Using Jig.	---

1. Playback an alignment tape (PAL colour bar).
2. Observe TP40.
3. Adjust VC6D8 so that the frequency is $4433619 \pm 30\text{Hz}$.

PCB SIGNAL (COMPONENT SIDE)

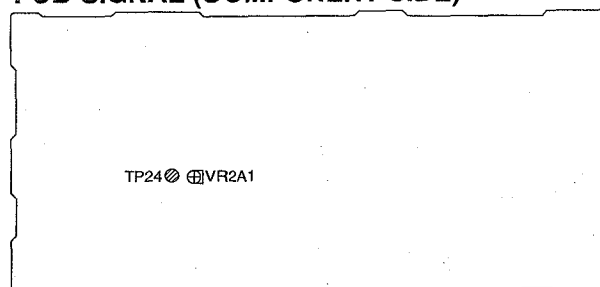


4.Sub Emphasis Limiter		Adjustment purpose: Setting a input level of emphasisizer for S-VHS mode. Symptom when incorrectly adjusted: The luminance of a video signal will vary and the horizontal sync will be disturbed.	
------------------------	--	--	--

Measuring instrument and condition		VCR set up condition	
DC volt metre		Input signal	EXT signal (PAL colour bar)
Test point	TP24	Using tape	---
EXT trigger	---	VCR condition	STOP
Measurement range	---	Using Jig.	---

1. Observe TP24 with DC volt metre.
2. Adjust VR2A1 so that the DC voltage is 3.48V.

PCB SIGNAL (COMPONENT SIDE)



5.AGC Level		Adjustment purpose: Setting an AGC output level.	
		Symptom when incorrectly adjusted: Too bright or too dark image.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (G card)
Test point	TP2Y	Using tape	---
EXT trigger	TP2S	VCR condition	STOP
Measurement range	DIV 50mV TIM 10μs	Using Jig.	---

1. Supply a video signal (G card) to connect the VIDEO IN terminal.
2. Short-circuit TP2Q and TP2G.
3. Observe TP2Y.
4. Adjust VR2A3 so that the amplitude of the waveform is 2.1Vp-p.
5. Open-circuit TP2Q and TP2G.

PCB SIGNAL (COMPONENT SIDE)

6.Vertical Correlation		Adjustment purpose: Set up normal signal level because of noise-reduction and signal level equal.	
		Symptom when incorrectly adjusted: Chroma signal is not reproduced correctly.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (PAL colour bar)
Test point	CH1 : TP21 pin① CH2 : TP21 pin②	Using tape	---
EXT trigger	---	VCR condition	STOP
Measurement range	DIV 20mV TIM 5ms	Using Jig.	---

1. Supply a video signal (PAL colour bar) to VIDEO IN terminal.
2. Short-circuit TP2Q and TP2G.
3. Set the oscilloscope so that the voltage range of CH-1 and CH-2 are the same.
4. Set the oscilloscope to ADD mode and CH-2 to invert mode.
5. Observe TP21 pin① and pin②.
6. Adjust VR702 for the minimum chroma component of the waveform, and adjust VR703 and VR702 alternately for the minimum chroma component of the waveform.
7. Observe TP21 pin① and ③.
8. Adjust VR707 and VR704 alternately for the minimum chroma component of the waveform.
9. Open-circuit TP2Q and TP2G.

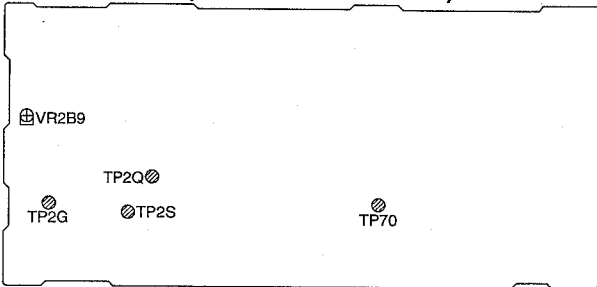
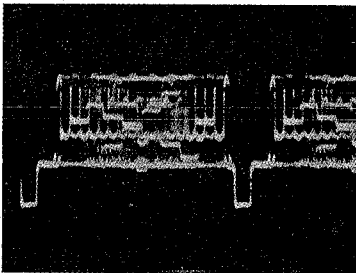
PCB SIGNAL (COMPONENT SIDE)

7.EE Luminance Level of DCF Output		Adjustment purpose: DCF output level of video signal in Stop mode. Symptom when incorrectly adjusted: Too bright or too dark image : colour signal is produced incorrectly.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (G card)
Test point	TP70	Using tape	---
EXT trigger	TP2S	VCR condition	STOP
Measurement range	DIV 10mV TIM 10 μ s	Using Jig.	---

Perform the Vertical Correlation adjustment (ITEM 6) before this adjustment.

1. Supply a video signal (G card) to VIDEO IN terminal.
2. Short-circuit TP2Q and TP2G.
3. Observe TP70.
4. Measure the amplitude of the waveform.
5. Open-circuit TP2Q and TP2G.
6. Adjust VR2B9 so that the amplitude of the waveform is same as in step 4.

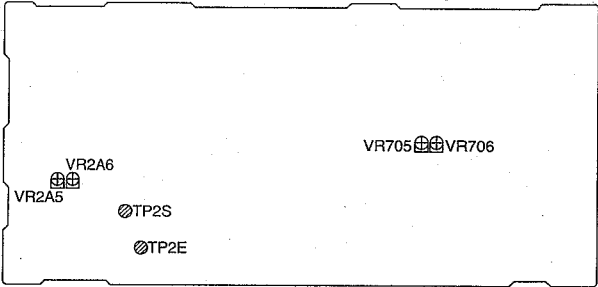
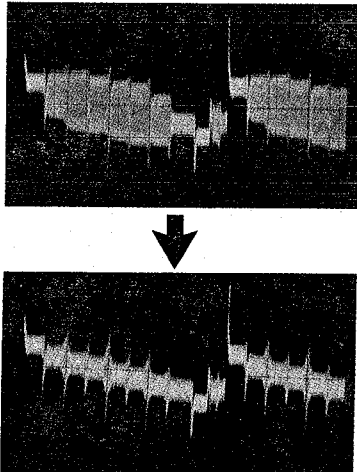
PCB SIGNAL (COMPONENT SIDE)

8. Y/C Separation		Adjustment purpose: Take out Luminance component from Y/C composite signal. Symptom when incorrectly adjusted: Too noisy image.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (PAL colour bar)
Test point	TP2E	Using tape	---
EXT trigger	TP2S	VCR condition	STOP
Measurement range	DIV 20mV TIM 10 μ s	Using Jig.	---

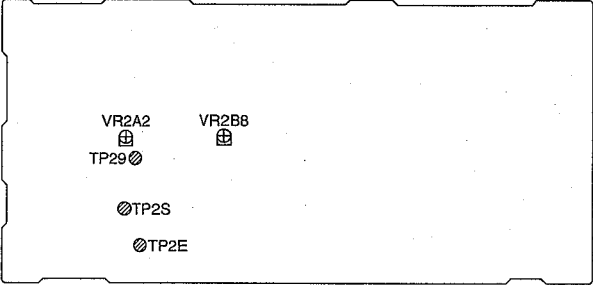
1. Turn VR2A6 (W-CLIP) and VR2A5 (B-CLIP) fully counter clockwise as seen from the component side of PCB SIGNAL.
2. Set the VCR to S-VHS mode with the S-VHS switch.
3. Supply a video signal (PAL colour bar) to VIDEO IN terminal.
4. Observe TP2E.
5. Adjust VR705 and VR706 alternately for the minimum chroma component (green or magenta) of the waveform.
6. Perform the white clip and dark clip adjustment (ITEM 10).

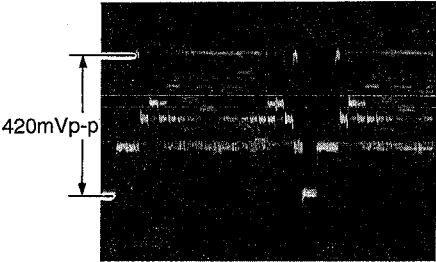
PCB SIGNAL (COMPONENT SIDE)

9. EE Output Level		Adjustment purpose: Output level of video signal in stop mode.		<ol style="list-style-type: none"> 1. Set the VCR to VHS mode with the S-VHS switch. 2. Supply a video signal (G card) to VIDEO IN terminal. 3. Observe TP29. 4. Adjust VR2A2 so that the amplitude of the waveform is 420mVp-p. 5. Observe TP2E. 6. Measure the amplitude of the waveform. 7. Set the VCR to S-VHS mode with the S-VHS switch. 8. Adjust VR2B8 so that the amplitude of the waveform is same as in step 5.
		Symptom when incorrectly adjusted: Too bright or too dark image : colour signal is produced incorrectly.		
Measuring instrument and condition		VCR set up condition		
Oscilloscope(Probe 10:1)		Input signal	EXT signal (G card)	
Test point	TP29	Using tape	---	
EXT trigger	TP25	VCR condition	STOP	
Measurement range	DIV 10mV TIM 10μs	Using Jig.	---	

PCB SIGNAL (COMPONENT SIDE)

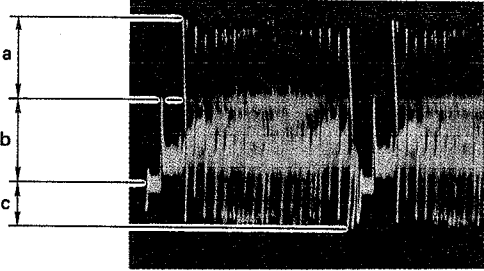




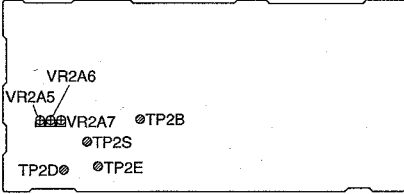
420mVp-p

10. White Clip Dark Clip		Adjustment purpose: Sharpening of aperture in picture.		<ol style="list-style-type: none"> 1. Set the VCR to S-VHS mode with the S-VHS switch. 2. Supply a video signal (G card) to VIDEO IN terminal. 3. Short-circuit TP2D and TP2B. 4. Observe TP2E. 5. Adjust VR2A6 and VR2A5 so that the overshoot appearing at the white side and the undershoot below the sync tip are 105% and 70% respectively. 6. Set the VCR to VHS mode with the S-VHS switch. 7. Adjust VR2A7 so that the overshoot appearing at the white side is 95±5%. 8. Open-circuit TP2D and TP2B.
		Symptom when incorrectly adjusted: Blur image, white streaking, black streaking.		
Measuring instrument and condition		VCR set up condition		
Oscilloscope(Probe 10:1)		Input signal	EXT signal (G card)	
Test point	TP2E	Using tape	---	
EXT trigger	TP2S	VCR condition	STOP	
Measurement range	DIV 10mV(variable) TIM 10μs	Using Jig.	---	

	S-VHS mode	Normal VHS mode
White Clip (b : a)	1 : 1.05	1 : 0.95±0.05
Dark Clip (b : a)	1 : 0.7	(1 : 0.55±0.10)

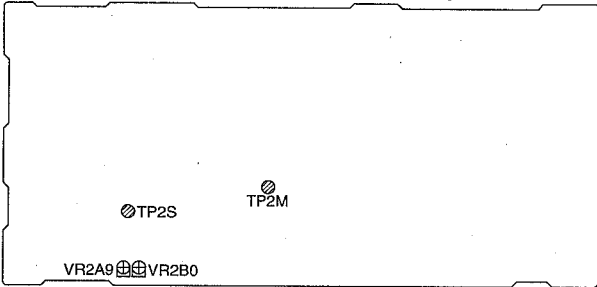


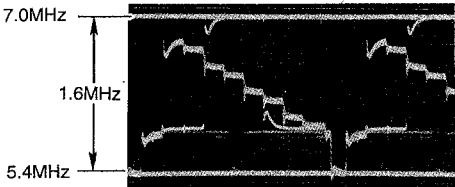
PCB SIGNAL (COMPONENT SIDE)



11. Carrier set, Deviation (S-VHS)		Adjustment purpose: FM carrier frequency and frequency deviations. Symptom when incorrectly adjusted: Too bright or too dark picture. Horizontal noise or out of sync.	
Measuring instrument and Point		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (PAL colour bar)
Test point	TP2M	Using tape	A tape (S-VHS)
EXT trigger	TP2S	VCR condition	EP REC
Measurement range	DIV 0.2V TIM 10μs	Using Jig.	Carrier checker

PCB SIGNAL (COMPONENT SIDE)

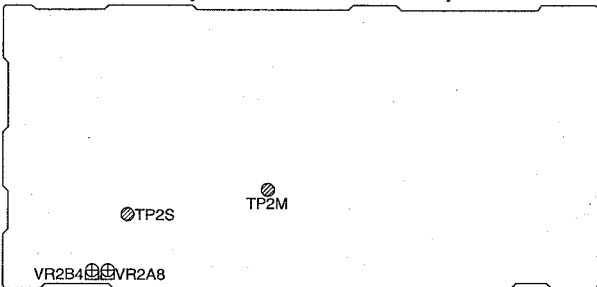


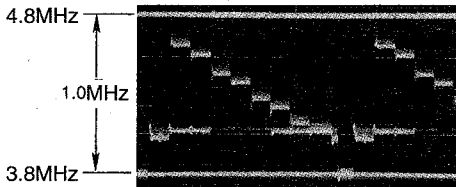


7.0MHz
1.6MHz
5.4MHz

12. Carrier set, Deviation (N-VHS)		Adjustment purpose: FM carrier frequency and frequency deviations. Symptom when incorrectly adjusted: Too bright or too dark picture. Horizontal noise or out of sync.	
Measuring instrument and Point		VCR set up condition	
Oscilloscope(Probe 1:1)		Input signal	EXT signal (PAL colour bar)
Test point	TP2M	Using tape	A tape
EXT trigger	TP2S	VCR condition	EP REC
Measurement range	DIV 0.2V TIM 10μs	Using Jig.	Carrier checker

PCB SIGNAL (COMPONENT SIDE)





4.8MHz
1.0MHz
3.8MHz

1. Set the VCR to VHS mode with the S-VHS switch.
2. Observe TP2M via the carrier checker.
3. Adjust VR2B4 and VR2A8 so that the response waveform 3.8MHz line and 4.8MHz on the scope just touch each of white lines.

13. Chroma AFC		Adjustment purpose: Adjust synchronizing automatic frequency control circuit.	
		Symptom when incorrectly adjusted: Increase vertical noise.	
Measuring instrument and condition		VCR set up condition	
Frequency counter		Input signal	---
Test point	TP6C	Using tape	A tape
EXT trigger	---	VCR condition	REC
Measurement range	---	Using Jig.	---

Be certain that nothing is connected to VIDEO IN terminal.

1. Short-circuit TP20 and TP2B.
2. Observe TP6C.
3. Adjust VR6F1 so that the frequency is $5056.6 \pm 2\text{kHz}$.
4. Open-circuit TP20 and TP2B.

PCB SIGNAL (COMPONENT SIDE)

14. H-SYNC-PLL		Adjustment purpose: Oscillate gate pulse for normally synchronizing signal.	
		Symptom when incorrectly adjusted: Horizontal synchronizing signal is out of place and increase side stripe.	
Measuring instrument and condition		VCR set up condition	
Frequency counter		Input signal	---
Test point	TP20	Using tape	---
EXT trigger	---	VCR condition	STOP
Measurement range	---	Using Jig.	---

Be certain that nothing is connected to VIDEO IN terminal.

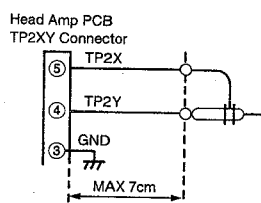
1. Set INPUT select switch to EXT position and VIDEO MUTE switch to OFF.
2. Short-circuit TP22 and TP2G.
3. Observe TP20.
4. Adjust VR200 so that the frequency is $15.725 \pm 0.01\text{kHz}$.
5. Open-circuit TP22 and TP2G.

PCB SIGNAL (COMPONENT SIDE)

15. Y/C Recording Level	Adjustment purpose: Level setting video signal for recording. Symptom when incorrectly adjusted: Low luminance S/N, beats colour banding of chrominance signal or flicker.	
-------------------------	---	--

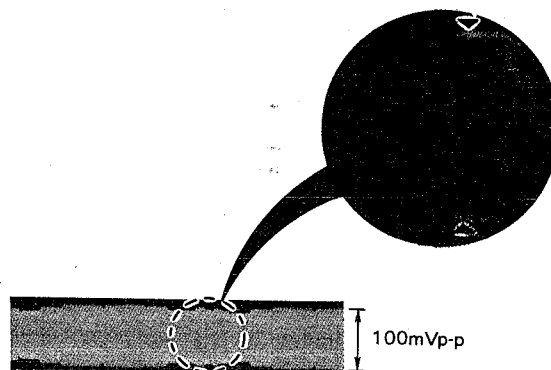
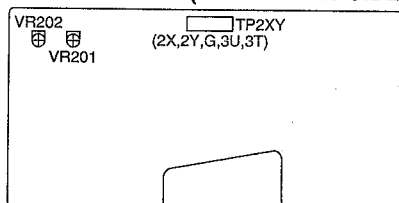
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 1:1)		Input signal	EXT signal (PAL colour bar)
Test point	TP2XY connector (pin4 and pin5)	Using tape	A tape
EXT trigger	TP2S	VCR condition	LP REC
Measurement range	DIP 5mV TIM 10μs	Using Jig.	---

1. Set the VCR to S-VHS mode with the S-VHS switch.
2. Observe TP2XY connector pin4 (connect probe) and pin5 (connect probe's GND).
3. Turn VR202 fully counter clockwise as seen from top side.
4. Adjust VR201 so that the amplitude of red is 30mVp-p.



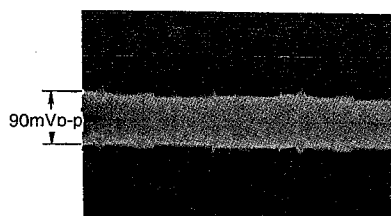
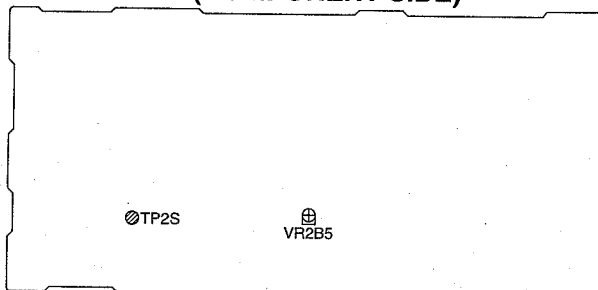
5. Set the oscilloscope's probe to 10:1.
6. Adjust VR202 so that the amplitude of the horizontal sync is 100mVp-p.

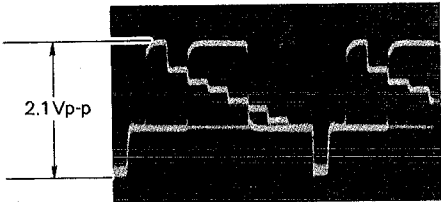
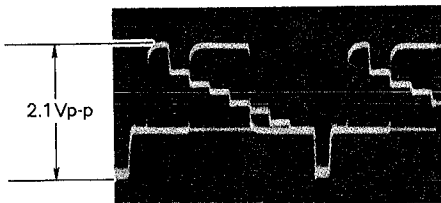
PCB HEAD AMP (COMPONENT SIDE)



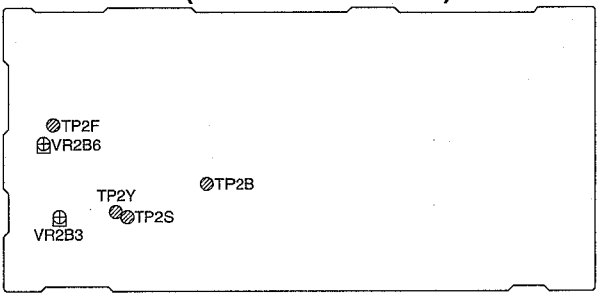
7. Set the VCR to VHS mode with the S-VHS switch.
8. Adjust VR2B5 so that the amplitude of the horizontal sync is 90mVp-p.

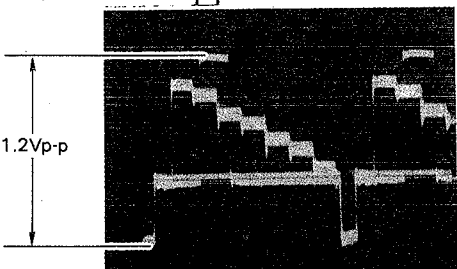
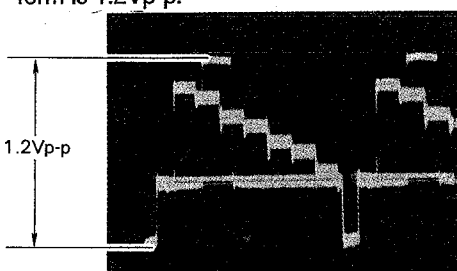
PCB SIGNAL (COMPONENT SIDE)



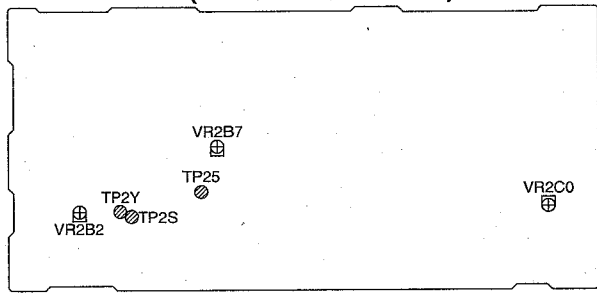
16. Playback Demodulation Sensitivity (Normal Mode)		Adjustment purpose: Setting each output level to the same when playing a tape recorded in VHS mode. Symptom when incorrectly adjusted: Both Y signal and colour signal will be played back incorrectly.		
Measuring instrument and condition		VCR set up condition		<ol style="list-style-type: none"> 1 Playback an alignment tape (PAL colour bar) 2 Short-circuit TP2F and TP2B. 3 Observe TP2Y. 4 Adjust VR2B3 so that the amplitude of the waveform is 2.1Vp-p. <div style="text-align: center; margin: 10px 0;">  <p>2.1Vp-p</p> </div> <ol style="list-style-type: none"> 5. Open-circuit TP2F and TP2B. 6. Adjust VR2B6 so that the amplitude of the waveform is 2.1Vp-p. <div style="text-align: center; margin: 10px 0;">  <p>2.1Vp-p</p> </div>
Oscilloscope(Probe 10:1)		Input signal	---	
Test point	TP2Y	Using tape	Alignment tape (PAL colour bar)	
EXT trigger	TP2S	VCR condition	SP Playback	
Measurement range	DIV 50mV TIM 10μs	Using Jig.	---	

PCB SIGNAL (COMPONENT SIDE)

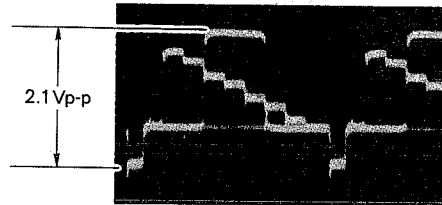


17. Playback Demodulation Sensitivity (S-VHS Mode)		Adjustment purpose: Setting each output level to the same when playing a tape recorded in S-VHS mode. Symptom when incorrectly adjusted: Both Y signal and colour signal will be played back incorrectly.		
Measuring instrument and condition		VCR set up condition		<ol style="list-style-type: none"> 1 Playback an alignment tape (S-VHS PAL colour bar). 2 Observe TP25. 3. Adjust VR2B2 so that the amplitude of the waveform is 1.2Vp-p. <div style="text-align: center; margin: 10px 0;">  <p>1.2Vp-p</p> </div> <ol style="list-style-type: none"> 4. Playback an alignment tape (S-VHS NTSC colour bar). 5. Adjust VR2C0 so that the amplitude of the waveform is 1.2Vp-p. <div style="text-align: center; margin: 10px 0;">  <p>1.2Vp-p</p> </div>
Oscilloscope(10:1)		Input signal	---	
Test point	TP25	Using tape	Alignment tape (S-VHS PAL colour bar)	
EXT trigger	TP2S	VCR condition	SP playback	
Measurement range	DIV 20mV TIM 10μs	Using Jig.	---	

PCB SIGNAL (COMPONENT SIDE)



6. Playback an alignment tape (S-VHS PAL colour bar).
7. Observe TP2Y.
8. Adjust VR2B7 so that the amplitude of the waveform is 2.1Vp-p.



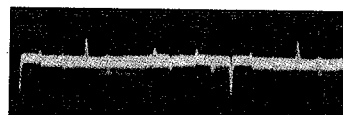
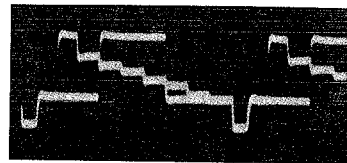
18. Noise Cancel

Adjustment purpose: S/N ratio and resolution colour signal.

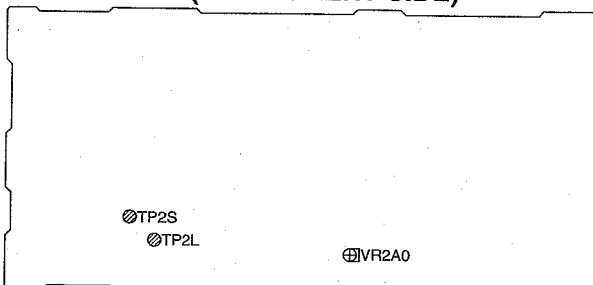
Symptom when incorrectly adjusted: Poor S/N ratio Poor colour signal resolution.

Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 1:1)		Input signal	---
Test point	TP2L	Using tape	Alignment tape (PAL colour bar)
EXT trigger	TP2S	VCR condition	SP Playback
Measurement range	DIP 5mV TIM 10μs	Using Jig.	---

- 1 Playback an alignment tape (PAL colour bar).
- 2 Observe TP2L.
- 3 Adjust VR2AO so that video signal is minimum.
- * Amplitude of video signal must be 30mVp-p or less.



PCB SIGNAL (COMPONENT SIDE)



19. Pilot Burst Phase		Adjustment purpose: Set the regular phase position to burst and pilot burst signal.	
		Symptom when incorrectly adjusted: Chroma signal is not reproduced correctly.	
Measuring instrument and condition		VCR set up condition	
Vector scope		Input signal	EXT signal (PAL colour bar)
Test point	TP6A	Using tape	---
EXT trigger	TP40	VCR condition	STOP
Measurement range	---	Using Jig.	

1. Set the VCR to S-VHS mode with the S-VHS switch.
2. Supply a video signal (PAL colour bar) to VIDEO IN terminal.
3. Short-circuit TP6C and TP6G.
4. Observe TP6A.
5. Locate the burst to the fixed position, and adjust VC6K1 so that the pilot burst located 270° from U-axis.
6. Adjust VR6E9 so that the pilot burst level is about 1.1 times the burst level.
7. Alternate adjustments of step 5 and step 6.

PCB SIGNAL (COMPONENT SIDE)

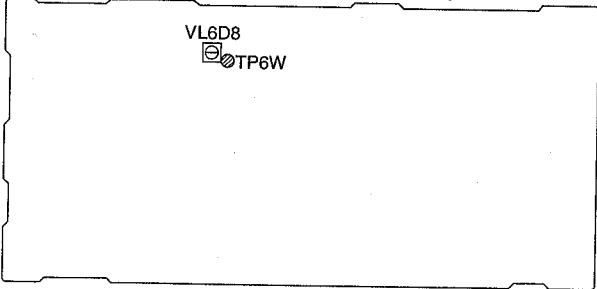
20. Pilot Burst Amplitude Level		Adjustment purpose: Set the regular amplitude of the pilot burst signal.	
		Symptom when incorrectly adjusted: Too bright or too dark picture :improper colour.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (PAL colour bar)
Test point	TP6A	Using tape	---
EXT trigger	TP2S	VCR condition	STOP
Measurement range	DIV 5mV TIM 5μs	Using Jig.	---

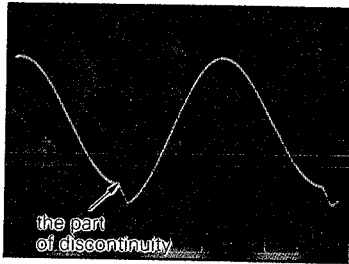
1. Set the VCR to S-VHS mode with the S-VHS switch.
2. Supply a video signal (PAL colour bar) to VIDEO IN terminal.
3. Short-circuit TP6C and TP6G.
4. Observe TP6A (Connect the oscilloscope's GND to TP6G.).
5. Adjust VR6E9 so that the amplitude of the pilot burst signal is 1.1 times that of burst signal.
6. Open-circuit TP6C and TP6G.

PCB SIGNAL (COMPONENT SIDE)

21. SECAM Detector		Adjustment purpose: Maximize sensitivity of SECAM discrimination circuit. Symptom when incorrectly adjusted: Loss of colour signal because SECAM signal cannot be detected.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (SECAM colour bar)
Test point	TP6W	Using tape	---
EXT trigger	---	VCR condition	STOP
Measurement range	DIV 0.1V TIM 20μs	Using Jig.	---

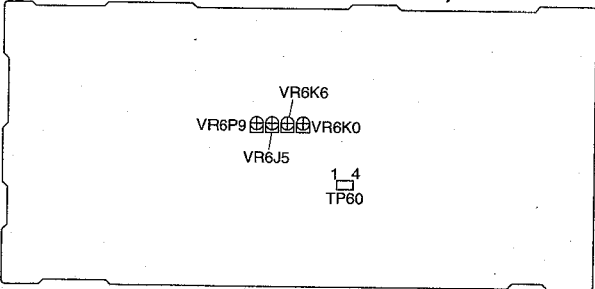
PCB SIGNAL (COMPONENT SIDE)

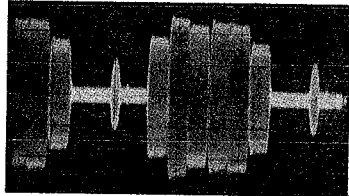


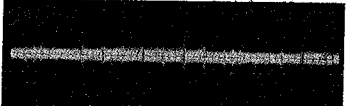


22. Chroma Comb		Adjustment purpose: Set up normal signal level because of noise-reduction and 1H delayed signal level equal. Symptom when incorrectly adjusted: Chroma signal is not reproduced correctly.	
Measuring instrument and Condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (PAL colour bar)
Test point	CH1:TP60 pin① CH2:TP60 pin②	Using tape	---
EXT trigger	---	VCR condition	STOP
Measurement range	DIV 50mV TIM 10μs	Using Jig.	---

PCB SIGNAL (COMPONENT SIDE)



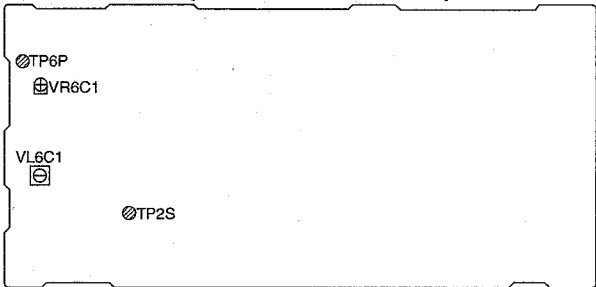


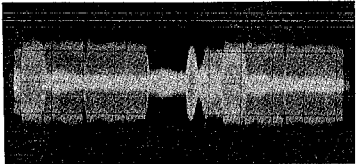



23. Chroma Noise Reduction		Adjustment purpose: S/N ratio and resolution of colour signal. Symptom when incorrectly adjusted: Poor S/N ratio : poor colour signal resolution.	
-----------------------------------	--	--	--

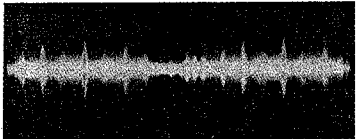
Measuring instrument and condition		VCR set up condition		1. Playback an alignment tape (PAL colour bar). 2. Observe TP6P. 3. Adjust VR6C1 and VL6C1 alternately for the minimum chroma component (magenta) of the waveform. * Amplitude of the waveform must be 30mVp-p or less.
Oscilloscope(Probe 10:1)		Input signal	---	
Test point	TP6P	Using tape	Alignment tape (PAL colour bar)	
EXT trigger	TP2S	VCR condition	SP playback	
Measurement range	DIV 50mV TIM 10μs	Using Jig.	---	

PCB SIGNAL (COMPONENT SIDE)





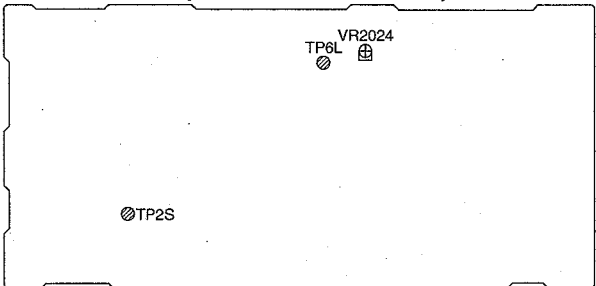


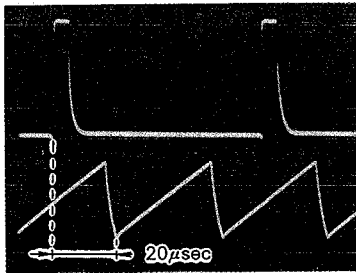


24. VCO of LP-SS Circuit		Adjustment purpose: Search the skew existence. Symptom when incorrectly adjusted: Can't skew correct.	
---------------------------------	--	--	--

Measuring instrument and condition		VCR set up condition		1. Check that the frequency of waveform at CH2 is approximately 2 times as many as that at CH1. 2. Adjust VR2024 so that the time between the rising edge of CH1 and bottom edge of CH2 is 20μsec.
Oscilloscope(Probe 10:1)		Input signal	---	
Test point	CH1:TP2S CH2:TP6L	Using tape	---	
EXT trigger	TP2S	VCR condition	STOP	
Measurement range	DIV 0.2V TIM 5ms	Using Jig.	---	

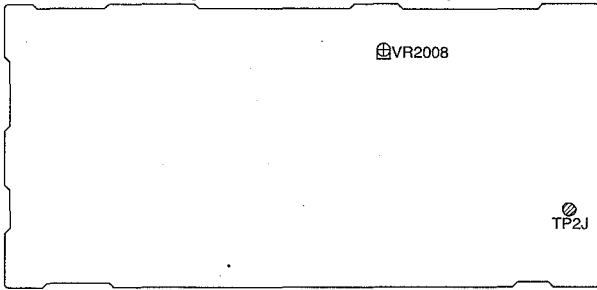
PCB SIGNAL (COMPONENT SIDE)



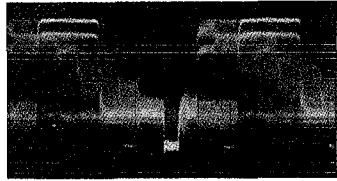



25 Luminance Output Level of LP-SS Circuit		Adjustment purpose: Corrects the disturbance of vertical synchronization during the speed search mode. Symptom when incorrectly adjusted: The disturbance of vertical synchronization appears on screen at the speed search mode.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (PAL colour bar)
Test point	TP2J	Using tape	A self recorded LP tape (VHS)
EXT trigger	TP2J	VCR condition	Speed Search
Measurement range	DIV 50mV TIM 10 μ s	Using Jig.	---

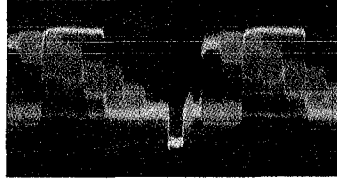
PCB SIGNAL (COMPONENT SIDE)



- 1 Playback a self recorded LP tape (VHS colour bar, speed search mode).
2. Observe TP2J.
3. Adjust VR2008 so that the amplitude of the two luminance waveforms on the oscilloscope's display coincide.

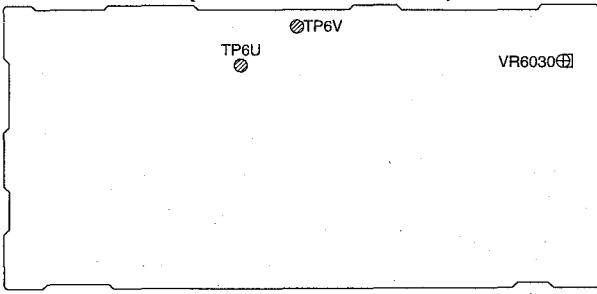




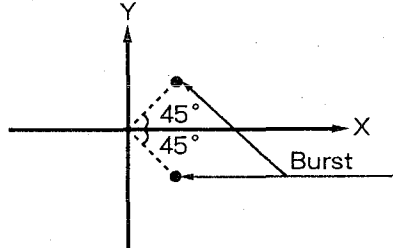


26. LP-SS VHS		Adjustment purpose: Protect the colour skew appearance. Symptom when incorrectly adjusted: Skew break out on still or speed search mode to VHS mode.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (PAL colour bar)
Test point	CH1:TP6U CH2:TP6V	Using tape	A self recorded LP tape (VHS)
EXT trigger	---	VCR condition	Still
Measurement range	DIV 10mV TIM X-Y mode	Using Jig.	---

PCB SIGNAL (COMPONENT SIDE)

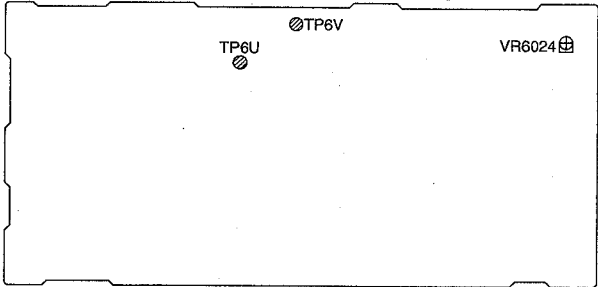


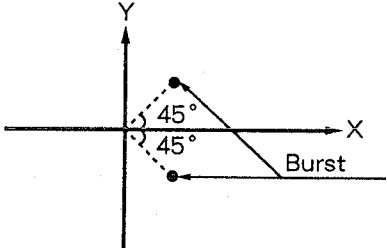
1. Playback a self recorded LP tape (VHS colour bar, still mode).
2. Adjust VR6030 so that the burst is located at $\pm 45^\circ$ from the X-axis and the two bright-point of each colour coincide.



27.LP-SS S-VHS		Adjustment purpose: Protect the colour skew appearance. Symptom when incorrectly adjusted: Skew break out still or speed search mode to S-VHS mode.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	EXT signal (PAL colour bar)
Test point	CH1:TP6U CH2:TP6V	Using tape	A self recorded LP tape (S-VHS)
EXT trigger	---	VCR condition	Still
Measurement range	DIV 10mV TIM X-Y mode	Using Jig.	---

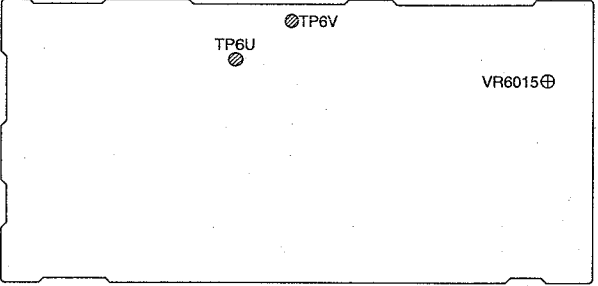
PCB SIGNAL (COMPONENT SIDE)

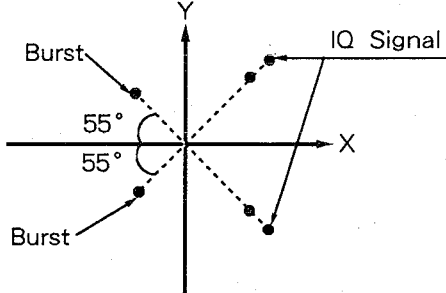




28. NTSC Playback		Adjustment purpose: Playback a recorded NTSC tape. Symptom when incorrectly adjusted: Can not playback a recorded NTSC tape.	
Measuring instrument and condition		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	---
Test point	CH1:TP6U CH2:TP6V	Using tape	Alignment tape (NTSC colour bar)
EXT trigger	---	VCR condition	SP Playback
Measurement range	DIV 10mV TIM X-Y mode	Using Jig.	---

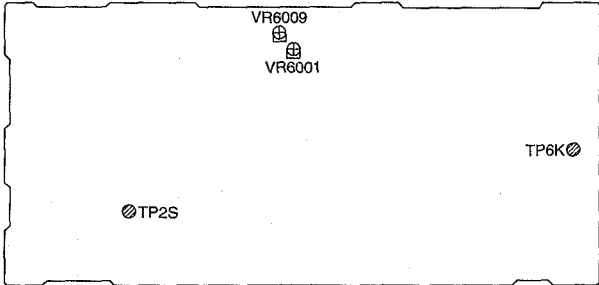
PCB SIGNAL (COMPONENT SIDE)

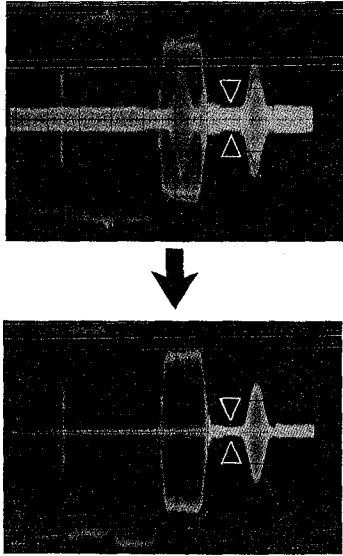




29. CAI Carrier Offset		Adjustment purpose: Set up carrier leak of balanced modulator and chroma level. Symptom when incorrectly adjusted: COLOUR and TINT is not reproduced correctly on the center click position.		<ol style="list-style-type: none"> 1. Set COLOUR and TINT button to the centre click position. 2. Observe TP6K. 3. Alternate adjustments in the following sequence : VR6009 and VR6001 so that the carrier leak level is minimum. 4. Check that the minimum carrier leak level must be 30mVp-p or less.
Measuring instrument and condition		VCR set up condition		
Oscilloscope(Probe 10:1)		Input signal	EXT signal (PAL colour bar)	
Test point	TP6K	Using tape	A self recorded SP tape (S-VHS)	
EXT trigger	TP2S	VCR condition	SP playback	
Measurement range	DIV 20mV TIM 5μs	Using Jig.	---	

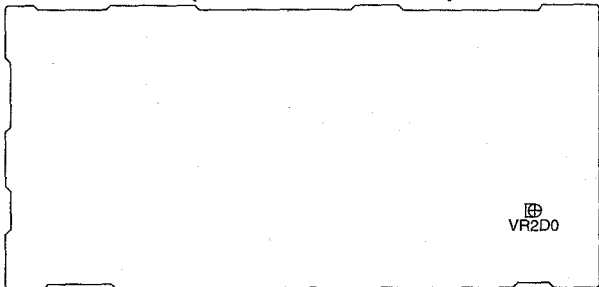
PCB SIGNAL (COMPONENT SIDE)





30. Tracking Level Metre		Adjustment purpose: Set up tracking level control on S-VHS self recorded and playback. Symptom when incorrectly adjusted: This indicator of VIDEO/TRACKING LEVEL metre does not act or points away.		<ol style="list-style-type: none"> 1. Make sure that AUTO TRACKING control is in AUTO mode. 2. Set the VCR to S-VHS mode with the S-VHS switch. 3. After Digital tracking, adjust VR2D0 so that the indicator point 3.5 position (the centre of green maker) in the VIDEO/TRACKING LEVEL meter.
Measuring instrument and condition		VCR set up condition		
Video/Tracking level meter		Input signal	EXT signal (PAL colour bar)	
Test point	---	Using tape	A tape (S-VHS)	
EXT trigger	---	VCR condition	SP Playback	
Measurement range	---	Using Jig.	---	

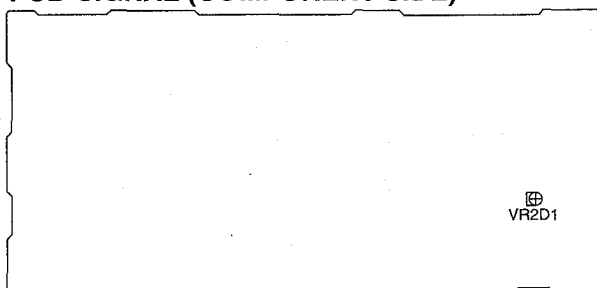
PCB SIGNAL (COMPONENT SIDE)



31.Video Level Meter		Adjustment purpose: Set up VIDEO/TRACKING LEVEL meter in stop mode.	
		Symptom when incorrectly adjusted: The indicator of VIDEO/TRACKING LEVEL meter does not act or points over in stop mode.	
Measuring instrument and Point		VCR set up condition	
Video/Tracking level metre		Input signal	EXT signal (PAL colour bar)
Test point	---	Using tape	---
EXT trigger	---	VCR condition	STOP
Measurement range	---	Using Jig.	---

1. Set the VCR to VHS mode with the S-VHS switch.
2. Adjust VR2D1 so that the indicator points 3.5 position (the centre of green maker) in VIDEO/TRACKING LEVEL meter.

PCB SIGNAL (COMPONENT SIDE)

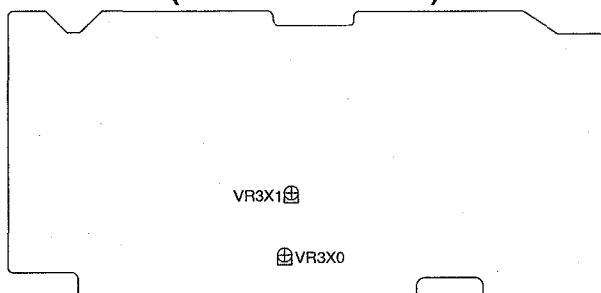


[Normal Audio Circuit] 32. Dolby Level		Adjustment purpose: Set up Audio output level during playback.	
		Symptom when incorrectly adjusted: Too loud or too low sound.	
Measuring instrument and Point		VCR set up condition	
Audio Tester		Input signal	---
Test point	NORMAL AUDIO OUT terminal	Using tape	Alignment tape (1kHz audio signal)
EXT trigger	---	VCR condition	SP playback
Measurement range	---	Using Jig.	---

1. Set TIME CODE switch OFF.
2. Adjust VR3X1(CH-1) and VR3X0(CH-2) for the -9dBs sound output level.

Note: If the level change is over ± 1 dB greatly, confirm the mechanical adjustment.

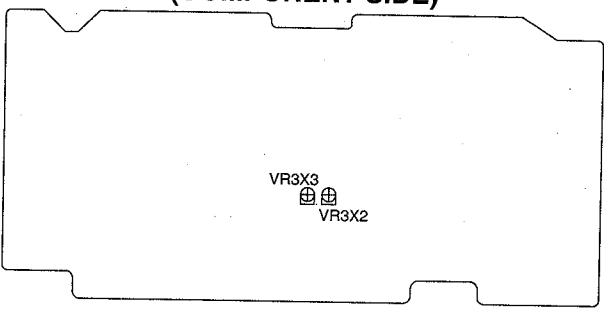
PCB AUDIO (COMPONENT SIDE)



33. EE Level		Adjustment purpose: Output level of Audio signal in stop mode. Symptom when incorrectly adjusted: Too loud or too low audio level.	
Measuring instrument and Point		VCR set up condition	
Audio Tester		Input signal	EXT signal (1kHz-28dBs audio signal)
Test point	NORMAL AUDIO OUT terminal	Using tape	---
EXT trigger	---	VCR condition	STOP
Measurement range	---	Using Jig.	---

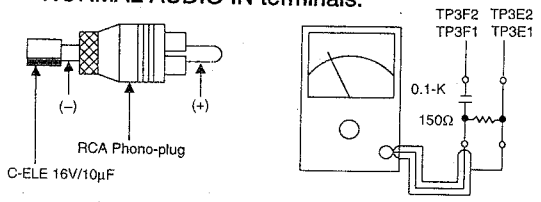
- 1 Supply Audio signal (1kHz-28dBs) to NORMAL AUDIO IN terminal (CH-1).
2. Adjust VR3X2 so that the normal audio output level is -28dBs (CH-1).
3. Supply Audio signal (1kHz-28dBs) to NORMAL AUDIO IN terminal (CH-2)
4. Adjust VR3X3 so that the normal audio output level is -28dBs (CH-2).

PCB AUDIO (COMPONENT SIDE)



34. Audio Bias Level		Adjustment purpose: Audio bias level during recording. Symptom when incorrectly adjusted: Low high frequency response of audio signal	
Measuring instrument and Point		VCR set up condition	
Audio Tester		Input signal	EXT signal (PAL colour bar)
Test point	TP3E1 TP3F1	Using tape	A tape
EXT trigger	---	VCR condition	SP REC
Measurement range	---	Using Jig.	High pass filter

- 1 Insert shorted RCA type phono-plugs into the NORMAL AUDIO IN terminals.



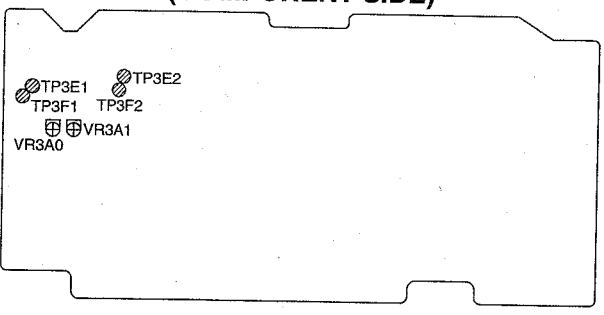
2. Observe TP3E1 and TP3F1 via high pass filter.
3. Confirm that the monitor TV etc. does not affect the indication of the audio tester and then adjust VR3A0 so that the level is 5.0mVr.m.s.

Note 1: Be careful that the audio tester housing does not touch the VCR chassis.

Note 2: Do not set the VCR to PLAY mode with the audio tester connected.
(The audio amplifier will be overloaded.)

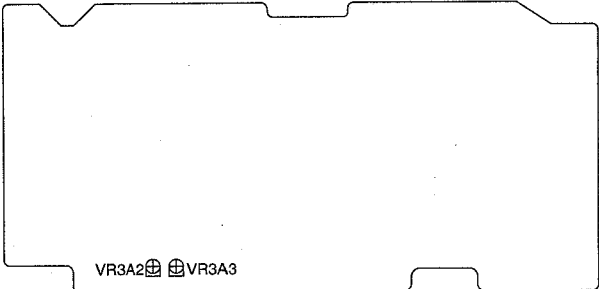
4. Observe TP3E2 and TP3F2 via high pass filter.
5. Confirm that the monitor TV ect. does not affect the indication of the audio tester and then adjust VR3A1 so that the level is 50mVr.m.s.

PCB AUDIO (COMPONENT SIDE)



35. Audio Meter		Adjustment purpose: Indicate Audio output level correctly. Symptom when incorrectly adjusted: The indicator of AUDIO LEVEL meter does not act or point over.		<ol style="list-style-type: none"> 1 Supply an audio signal to NORMAL AUDIO IN terminal. 2. Adjust VR3A3 so that the pointer of AUDIO LEVEL CH-1 points 0dB. 3. Adjust VR3A2 so that the pointer of AUDIO LEVEL CH-2 points 0dB.
Measuring instrument and Point		VCR set up condition		
Audio Tester		Input signal	EXT signal (1kHz, -8dBs)	
Test point	---	Using tape	---	
EXT trigger	---	VCR condition	STOP	
Measurement range	---	Using Jig.	---	

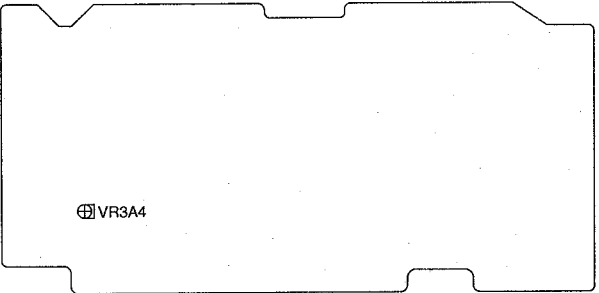
PCB AUDIO (COMPONENT SIDE)



VR3A2 ⊕ ⊙ VR3A3

36. Time Code		Adjustment purpose: Set up Time code signal. Symptom when incorrectly adjusted: It is difficult to detect time code signal.		<ol style="list-style-type: none"> 1 Supply a square-wave (2.4kHz, 1Vp-p). 2. Set the VCR to time code mode with the TIME CODE switch. 3. Adjust VR3A4 so that the indicator points 0dB in AUDIO LEVEL CH-2.
Measuring instrument and Point		VCR set up condition		
Audio Tester		Input signal	EXT signal (Square wave)	
Test point	---	Using tape	A tape	
EXT trigger	---	VCR condition	SP REC	
Measurement range	---	Using Jig.	---	

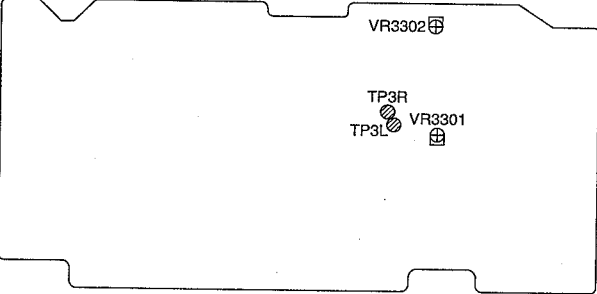
PCB AUDIO (COMPONENT SIDE)



⊕ VR3A4

[Hi-Fi Audio Circuit] 37. OSC Frequency		Adjustment purpose: Set up of FM carrier frequency of Hi-Fi audio signal. Symptom when incorrectly adjusted: Buzz in the sound.		
Measuring instrument and Point		VCR set up condition		1. Ground Hi-Fi AUDIO IN terminal. 2. Observe TP3L. 3. Adjust VR3301 so that the frequency is $1.400\text{MHz} \pm 3\text{kHz}$. 4. Observe TP3R. 5. Adjust VR3302 so that the frequency is $1.800\text{MHz} \pm 3\text{kHz}$.
Frequency counter		Input signal	---	
Test point	TP3L	Using tape	---	
EXT trigger	---	VCR condition	STOP	
Measurement range	---	Using Jig.	---	

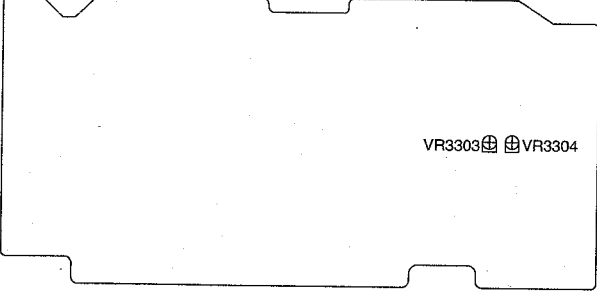
PCB AUDIO (COMPONENT SIDE)



The diagram shows a rectangular PCB layout. At the top right is VR3302. In the center are TP3R and TP3L. At the bottom right is VR3301.

38. EE level		Adjustment purpose: Out put level of Hi-Fi Audio signal in stop mode. Symptom when incorrectly adjusted: Too loud or too low audio level.		
Measuring instrument and Point		VCR set up condition		1. Set the Hi-Fi LEVEL control to the centre click position. 2. Supply an audio signal (1kHz, -8dBs) to the Hi-Fi AUDIO IN terminal. (CH-1) 3. Adjust VR3303 so that the hi-fi audio output level is -8dBs (CH-1) 4. Supply an audio signal (1kHz, -8dBs) to the Hi-Fi AUDIO IN terminal. (CH-2) 5. Adjust VR3304 so that hi-fi audio output level is -8dBs.(CH-2)
Audio Tester		Input signal	EXT signal (1kHz, -8dBs)	
Test point	Hi-Fi AUDIO OUT terminal	Using tape	---	
EXT trigger	---	VCR condition	STOP	
Measurement range	---	Using Jig.	---	

PCB AUDIO (COMPONENT SIDE)



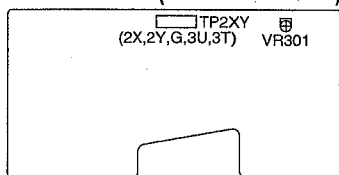
The diagram shows a rectangular PCB layout. At the bottom right are VR3303 and VR3304.

39.FM REC Level	Adjustment purpose: Setting of record level of Hi-Fi audio signal. Symptom when incorrectly adjusted: Wow/flutter in audio. Poor S/N in video signal.
-----------------	--

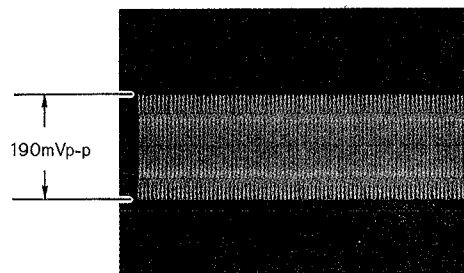
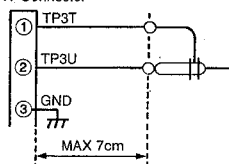
Measuring instrument and Point		VCR set up condition	
Oscilloscope(Probe 10:1)		Input signal	---
Test point	TP2XY connector (pin1 and pin2)	Using tape	A tape
EXT trigger	---	VCR condition	REC
Measurement range	DIV 10mV TIM 20 μ s	Using Jig.	---

1. Set the VCR to VHS mode with the S-VHS switch.
 2. Connect the Hi-Fi AUDIO IN terminals to GND (CH-1 and CH-2).
 3. Observe TP2XY connector pin1 (connect probe's GND) and pin2 (connect probe).
 4. Adjust VR301 so that the amplitude of the waveform is 190mVp-p.
- Note:** This adjustment should be done after 20sec. from setting up recording.

PCB HEAD AMP (COMPONENT SIDE)



Head Amp PCB
TP2XY Connector



MECHANICAL ADJUSTMENT AND REPLACEMENT

1. Cleaning of Deck

The following parts require cleaning whenever serviced to maintain satisfactory performance.

1-1 Video Head

A. Clean the video heads in the following method if dust and other foreign objects on the video heads disturb the normal playback of images:

Dampen video head cleaning cloth with alcohol. Hold the cloth against the drum and turn the drum slowly counterclockwise to clean.

Note:

Do not directly touch the head attached to the upper drum. The head is very hard but brittle to impact, especially in the vertical direction.

Do not apply force in the vertical direction.

B. Allow residual alcohol to dry thoroughly before running tape. Otherwise, the liquid may stick to and damage the tape.

8. Upper and lower drum
9. Takeup slant pole
10. Takeup guide roller
11. A/C head
12. Takeup guide pole
13. Pinch roller
14. Capstan shaft
15. Takeup guide arm
16. Tension regulation arm T

A. Clean the tape transport with gauze dampened with alcohol, except the supply guide roller, takeup guide roller and pinch roller. If Guide rollers and pinch roller are stained with dust, clean them with dry gauze or exchange them with new parts.

B. Allow residual alcohol to dry thoroughly before running a tape. Otherwise the liquid may stick to and damage the tape.

1-2 Tape Transport(Refer to Fig. 1-1.)

Clean the following parts of the tape transport.

1. Tension regulation arm S
2. Tension arm
3. Supply guide pole
4. FE head
5. Impedance roller
6. Supply guide roller
7. Supply slant pole

1-3 Reel Disk Drive System

Clean the reel disk braking surfaces and the reel belt.

A. Clean the reel disk braking surfaces with gauze dampened with alcohol.

- After the alcohol dries up completely, perform "Adjustment to Back Tension and Tension Position" (Item 3-1)

B. Reel belt is stained with dust, clean it with dry gauze or exchange it with new part.

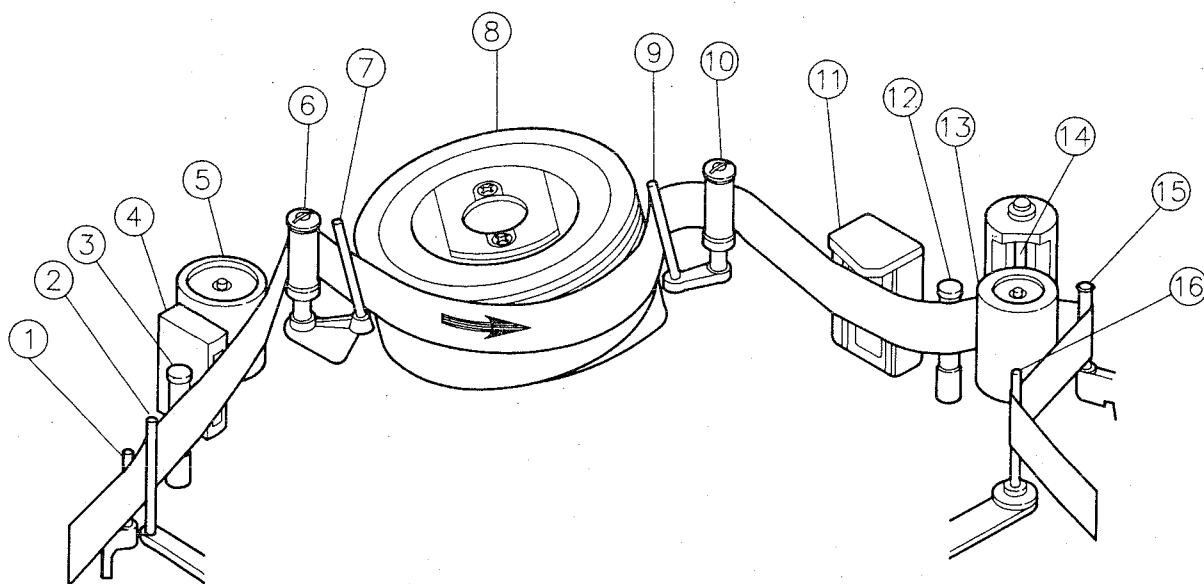


Fig. 1-1

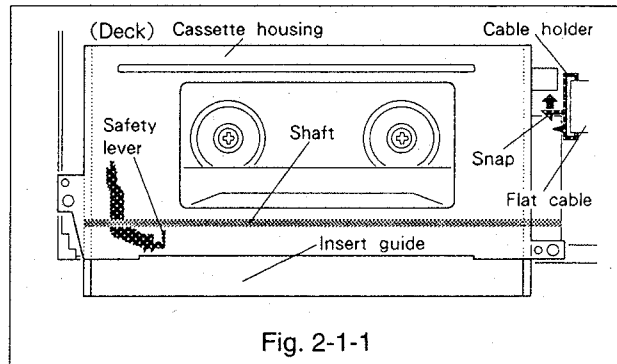
F0D001

2. Replacement of Major Parts

2-1 Cassette Housing

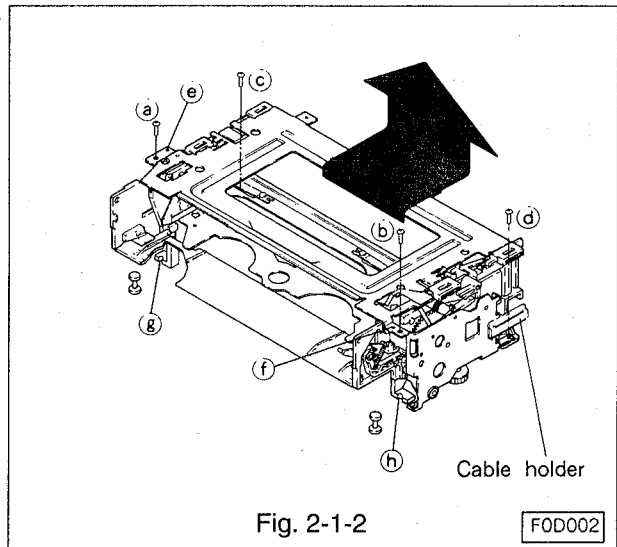
2-1-1 Removal(Refer to Fig. 2-1-1~2-1-2.)

- A. Set the VCR to the eject mode.
- B. Remove the top cover, bottom cover, and front panel.
- C. Unfasten the snap of the cable holder and remove the cable holder from the cassette housing as shown in Fig.2-1-1.
- D. Unscrew four cassette housing fastening screws (a~d). Raise the cassette housing slowly in the direction shown by the arrow.(Refer to Fig. 2-1-2.)



2-1-2 Installation(Refer to Fig.2-1-1~2-1-3.)

- A. Slowly lower the cassette housing onto the main plate of the deck so that the safety lever enters between the insert guide and the shaft as shown in Fig. 2-1-1. Align the two positioning holes (e, f) and the two U holes (g, h) located on the cassette housing with the matching holes in the deck.
- B. In step A above, if the front loading gear of the cassette housing does NOT engage the boss on the main plate, carefully push the gear toward the front of the VCR using a small-diameter screwdriver, as illustrated in Fig. 2-1-3. If the gear still will not engage, rotate the Front Loading Gear a few degrees from below the deck until the gear engages the boss correctly.
- C. Fasten the housing to the deck with the four screws (a~d).(Refer to Fig. 2-1-2.)



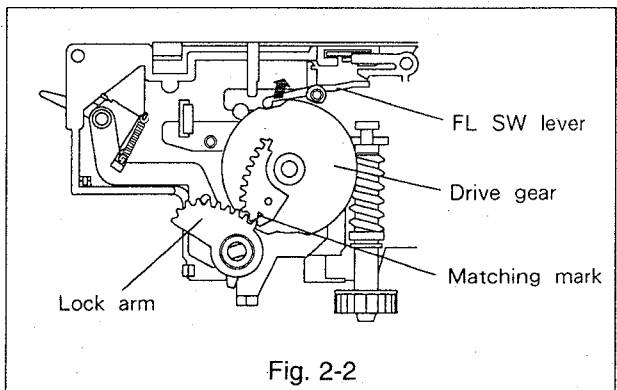
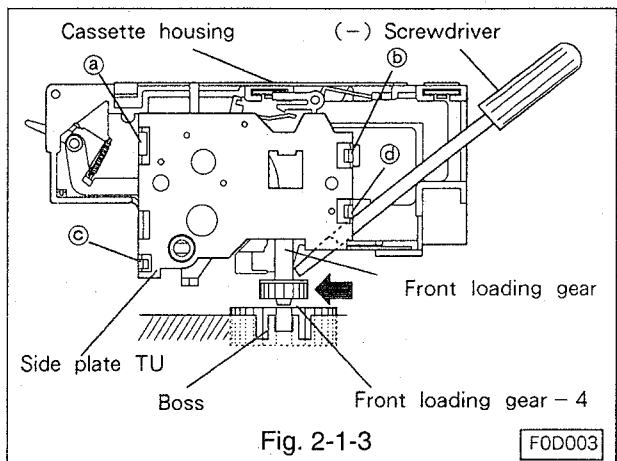
2-2 Lock arm and Drive gear

2-2-1 Removal(Refer to Fig. 2-1-3~2-2.)

- A. Unfasten four snaps (a~d) as shown in Fig. 2-1-3, and remove the side plate TU.
- B. Turn the FL SW lever clockwise to separate the FL SW lever from the drive gear, and pull the lock arm and drive gear to remove them from the shaft as shown in Fig. 2-2.

2-2-2 Installation(Refer to Fig. 2-1-3~2-2.)

- A. Install the drive gear on the shaft as shown in Fig. 2-2.
- B. Line the matching mark on the drive gear and beginning of gear section on the lock arm as shown in Fig. 2-2, and install the lock arm.
- C. Install the side plate TU to the cassette housing, and secure it with four snaps (a~d) as shown in Fig. 2-1-3.



2-3 Drum Assembly

2-3-1 Removal(Refer to Fig. 2-3-1~2-3-3.)

- Unscrew the brush fastening screw and remove the brush.(Refer to Fig. 2-3-1.)
- Unscrew two fastening screws(Ⓐ , Ⓑ) and remove the PCB HEAD AMP which is connected to the drum assembly.

Note:

The cable and connector between the drum and head amplifier may be damaged if the cable is pulled strongly, as the cable is short.

Remove the shield cap of the PCB, raise the PCB slightly and disconnect the FPC cable.

(Removal method for the FPC cable connector and stopper is shown in Fig. 2-3-3.)

Disconnect the grounding wire and remove the PCB HEAD AMP.

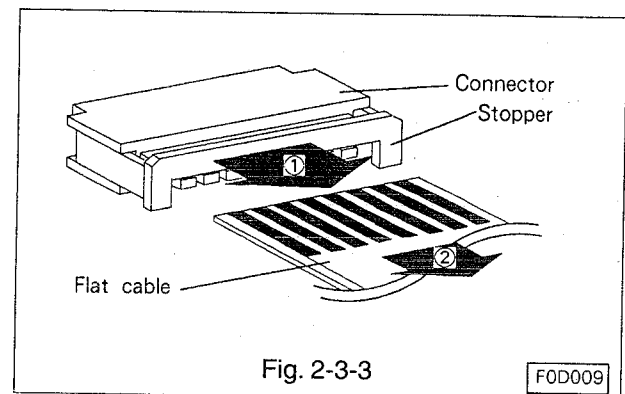
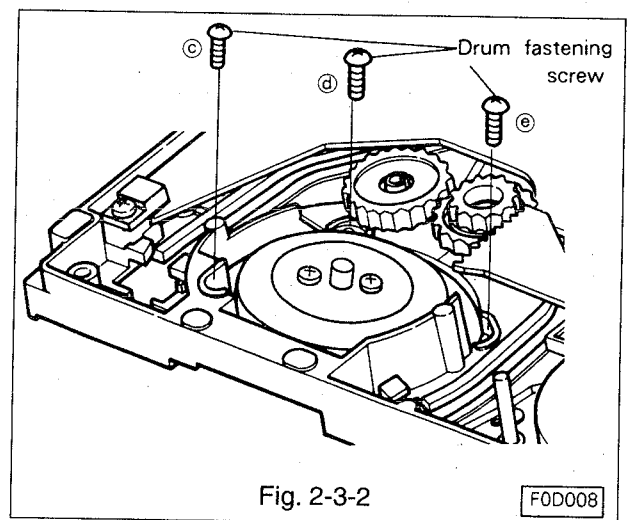
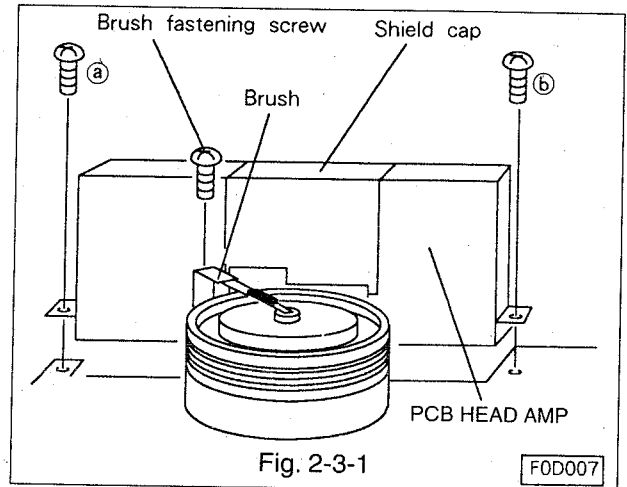
- Unscrew three drum fastening screws(Ⓒ ~ Ⓔ)from the reverse side of the deck.(Refer to Fig. 2-3-2.)
- Remove the drum assembly by raising it with care not to touch other parts around the drum assembly.
- Disconnect the connectors from the drum assembly. (Refer to Fig. 2-3-3.)

2-3-2 Installation (Refer to Fig. 2-3-1,2-3-2.)

- Connect the connectors to a new drum assembly.
- Place the new drum assembly on the main plate of the deck slowly with care not to touch other parts.
- Fasten the drum assembly with three fastening screws(Ⓒ ~ Ⓔ)on the reverse side of the deck. (Refer to Fig. 2-3-2.)
- Connect the PCB HEAD AMP to the drum assembly and fasten the PCB with two screws(Ⓐ , Ⓑ).(Refer to Fig. 2-3-1.)

Note:

Conduct the mechanism interchangeability adjustment outlined in Para.3 to give optimum performance when the drum assembly is replaced.



2-4 Upper Drum

2-4-1 Removal(Refer to Fig. 2-4-1.)

- Unscrew the brush fastening screw and remove the brush.
- Unsolder two inside soldered terminals of each head on the upper drum.
- Unscrew the upper drum fastening screws.
- Remove the upper drum slowly and carefully.

Note:

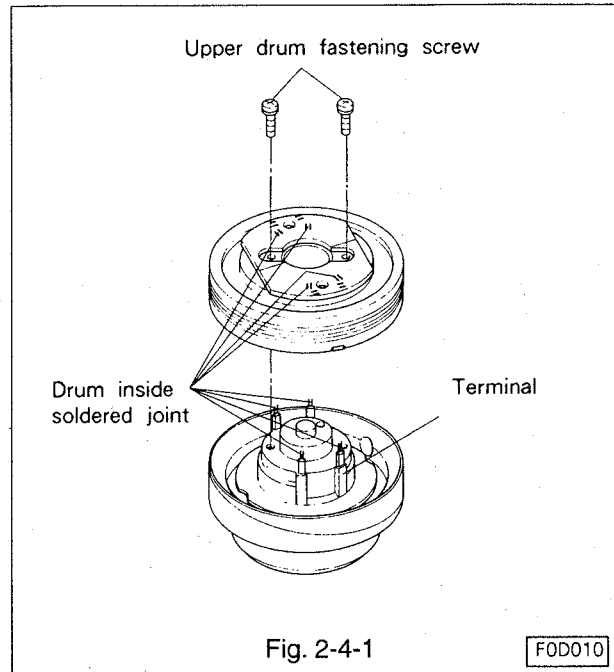
If the upper drum is difficult to remove, heat the upper drum fastening screw holes with a soldering iron, and the drum can be easily removed.

2-4-2 Installation(Refer to Fig. 2-4-1.)

Note:

Handle the upper drum carefully as the video heads are fragile.

- Position the lower drum so that the hole in the shaft faces the operator. Align the upper drum with the lower drum so that the CH1 mark on the upper drum is on the right side, and couple the drums.
- Fasten the upper drum with two screws.(Tighten the screws alternately.)
- Solder the terminals not soldered on the upper drum.
- Clean the video heads as outlined in Para. 1-1.

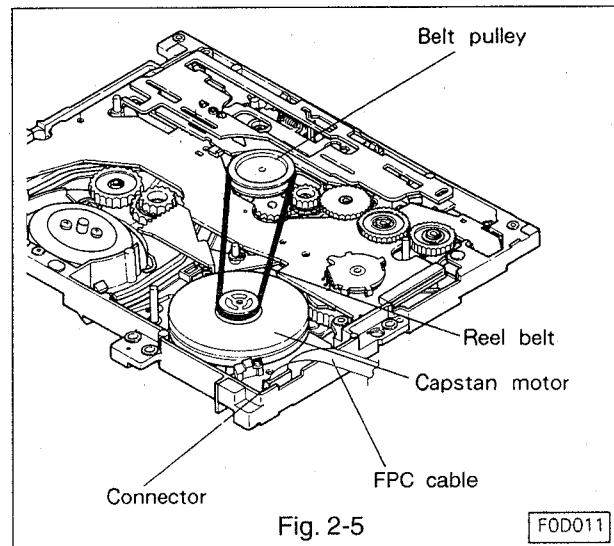


2-5 Reel Belt(Refer to Fig. 2-5)

- Remove the reel belt from the capstan motor and the belt pulley.
- Install a new reel belt.

Note:

Make certain that the new belt is free from grease, before installing.



2-6 Capstan Motor

2-6-1 Removal(Refer to Fig. 2-5, 2-6)

- Disconnect the FPC cable.
- Remove the reel belt.(Refer to Fig. 2-5.)
- Remove three fastening screws shown in Fig. 2-6 and remove the capstan motor.

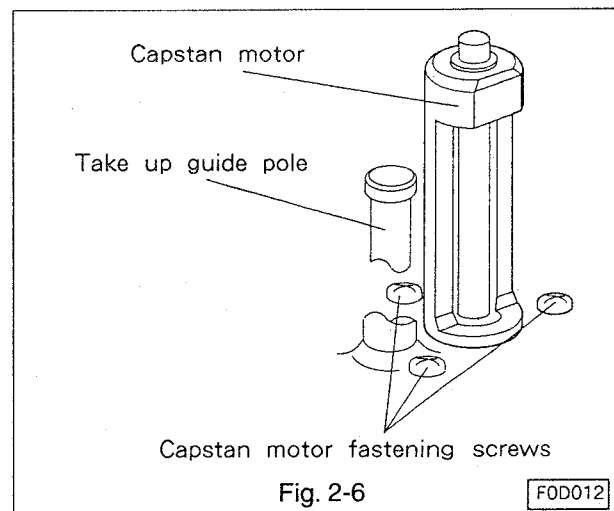
CAUTION:

Restrain the capstan motor as the three screws are removed, since an un-restrained motor may damage other parts of the deck.

When performing removal or installation of the capstan motor, take care that the outside of the rotor's rim is not greased.(Refer to Fig.2-5.) If greasy components are attached on the outside of the rotor's rim, wipe them off with a dry cloth because they may cause defects during special effects playback.

2-6-2 Installation(Refer to Fig. 2-5, 2-6.)

- Fasten the motor with three fastening screws.(Refer to Fig. 2-6.)
- Install the reel belt.
- Connect the FPC cable.



2-7 Loading Motor

2-7-1 Removal(Refer to Fig. 2-7-1, 2-7-2.)

- Set the VCR to the eject mode.
- Disconnect the wires from the loading motor.
- Remove two stoppers securing the motor and the motor holder plate.(Refer to Fig. 2-7-2.)
- Slide the motor and motor holder plate away, and then raise them to remove.
- Remove the belt-LM from the loading motor and the pulley-L.(TYPE-B only)(Refer to Fig. 2-7-1.)
- Unscrew two screws and detach the motor holder plate from the motor.
- Disconnect the coupling from the motor.

2-7-2 Installation(Refer to Fig. 2-7-1~2-7-3.)

- Fasten the coupling to a new loading motor.(Refer to Fig. 2-7-3.)
- Fasten the motor holder plate to the motor with two screws.(Refer to Fig. 2-7-1.)
- Install the belt-LM.(TYPE-B only)
- Place the motor and motor holder plate in the motor holder to the rest of the deck.
- Turn the motor shaft so that the coupling on the loading motors matches the worm gear of the motor holder. Slide the loading motor forward and secure it with the stoppers.
- Solder the leads to the loading motor. (Brown lead wire to the positive terminal and red lead wire to the negative terminal.)

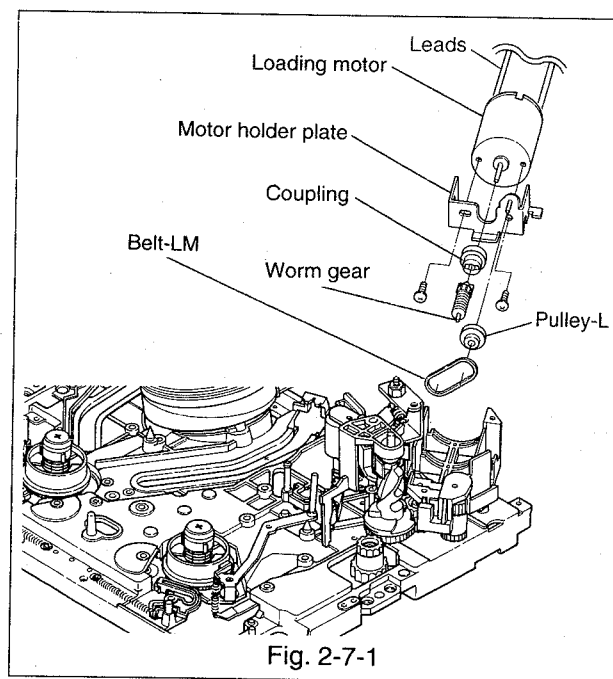


Fig. 2-7-1

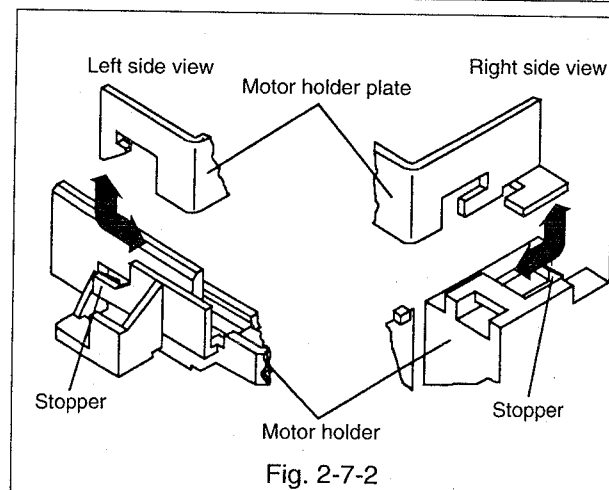


Fig. 2-7-2

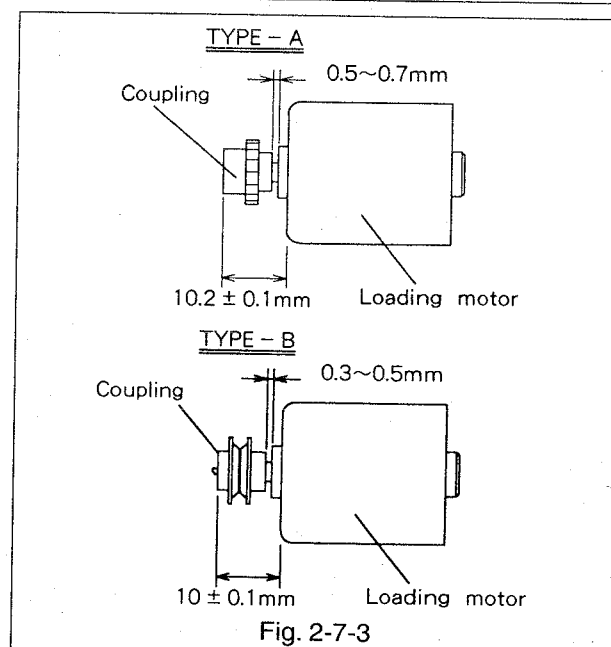


Fig. 2-7-3

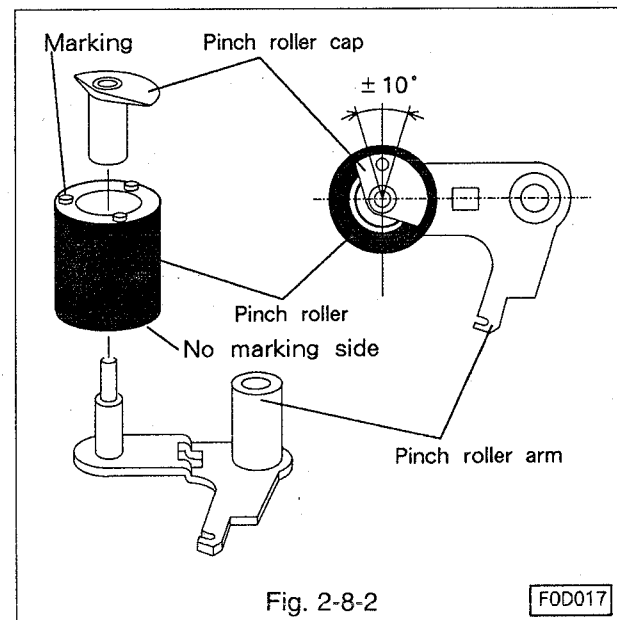
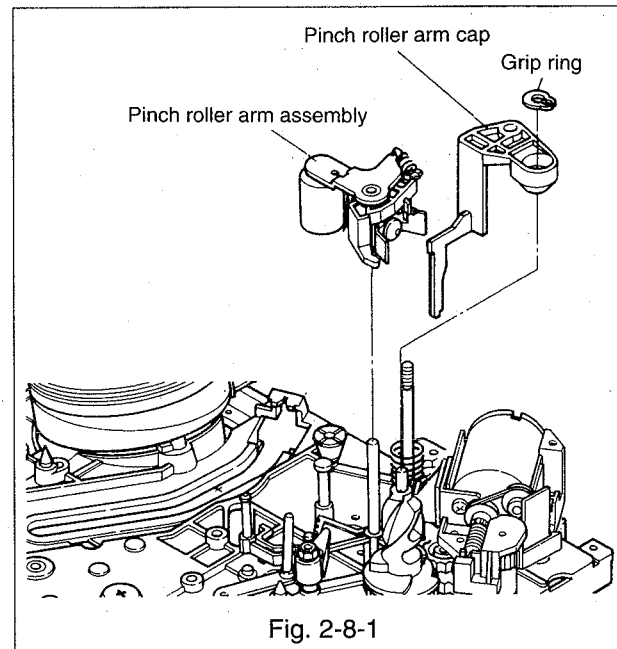
2-8 Pinch Roller

2-8-1 Removal(Refer to Fig. 2-8-1, 2-8-2.)

- A. Set the VCR to the eject mode.
- B. Remove the pinch roller arm cap and the grip ring which secures the pinch roller arm assembly.(Refer to Fig. 2-8-1.)
- C. Pull the pinch roller arm assembly upwards to remove.
- D. Remove the pinch roller cap from the pinch roller arm, and remove the pinch roller. (Refer to Fig. 2-8-2.)

2-8-2 Installation(Refer to Fig. 2-8-1,2-8-2.)

- A. Assemble the pinch roller cap and the pinch roller to the pinch roller arm by exercising care with the installation angle of the pinch roller cap and the marking of the Pinch Roller. (Refer to Fig. 2-8-2.)
- B. Assemble the pinch roller assembly to the shaft on the main plate.(Refer to Fig. 2-8-1.)
- C. Secure the pinch roller arm assembly with the pinch roller arm cap and the grip ring.



2-9 Mode Switch

Note:

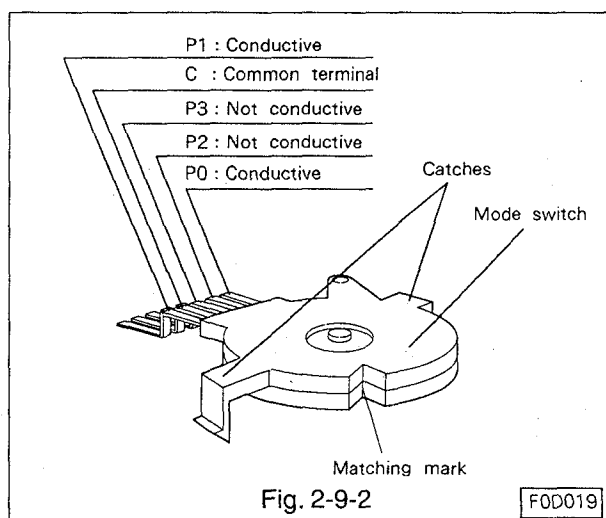
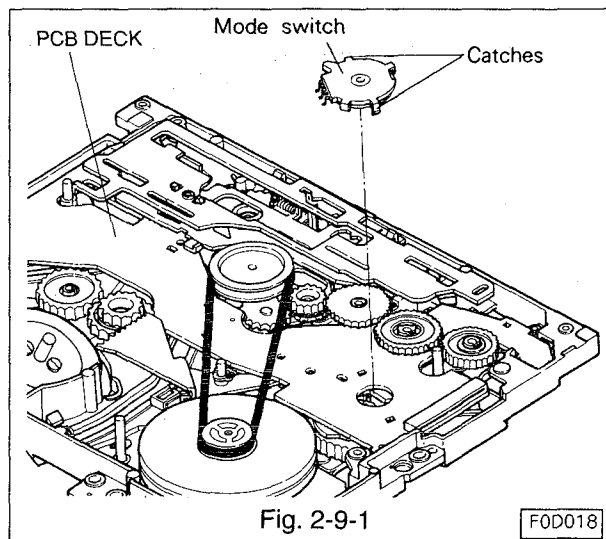
Replace the mode switch with the VCR in the eject mode.

2-9-1 Removal(Refer to Fig. 2-9-1)

- Unsolder the five soldered joints of the mode switch from the PCB DECK.
- Unfasten two catches fastening the switch to the PCB DECK assembly.
(Exercise care as the catches may be broken off.)
- Remove the mode switch slowly while insuring that the soldered joints are all unsoldered.

2-9-2 Installation(Refer to Fig. 2-9-1,2-9-2.)

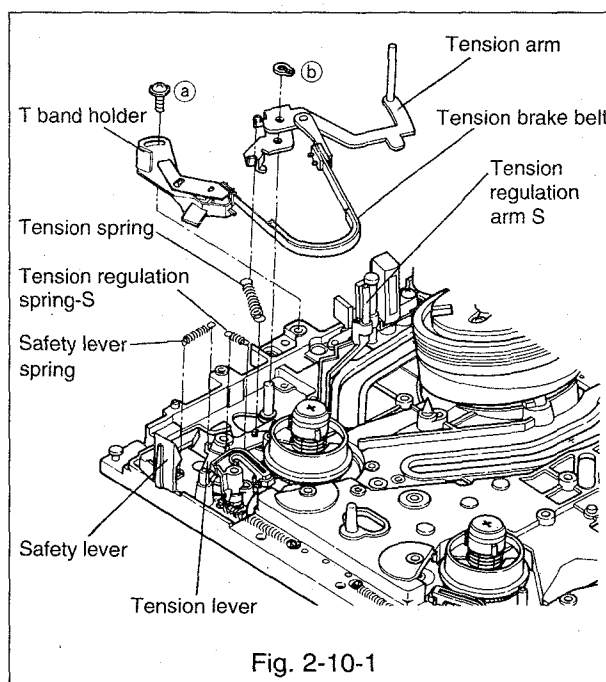
- Line the matching marks of the mode switch. (Refer to Fig. 2-9-2.)
- Finely adjust the mode switch so that continuity at each terminal shall be as given in the illustration.
- Fasten the switch to the PCB DECK with care so that the switch does not turn, and secure with two catches. (Refer to Fig. 2-9-1.)
- Solder the five terminals which connect the mode switch to the PCB DECK assembly.



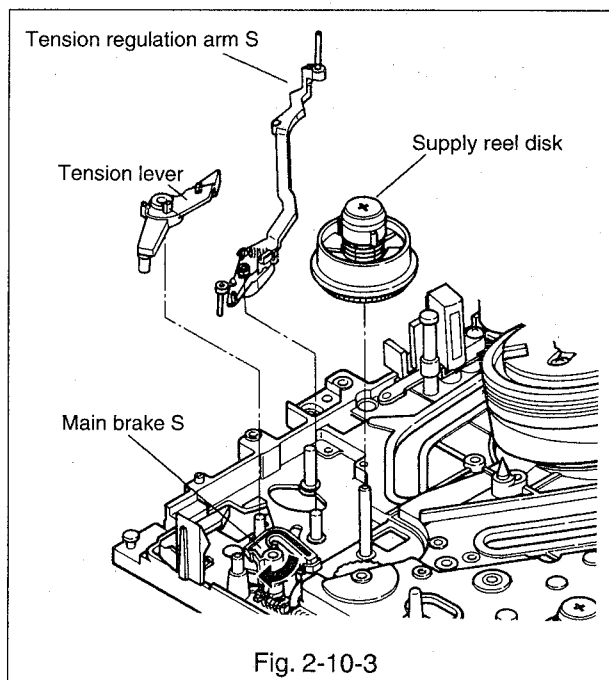
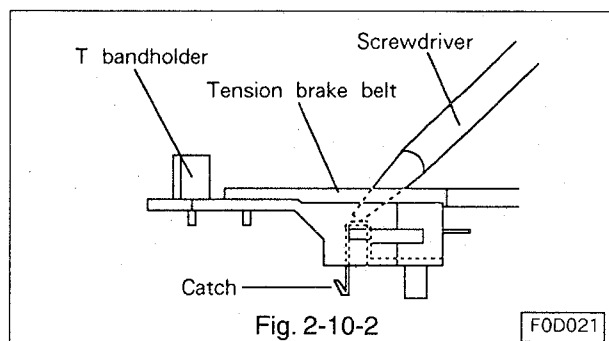
2-10 Supply Reel Disk

2-10-1 Removal (Refer to Fig. 2-10-1~2-10-3.)

- Remove the cassette housing as in Para. 2-1-1.
- Unscrew the screw (a) which fastens the T band holder. (Refer to Fig. 2-10-1.)
- Unfasten the catch of the T band holder from the main plate with a small screw driver etc. as shown in Fig. 2-10-2. Raise and remove the T band holder with care not to score or dirty the tension brake belt.
- Detach the tension spring from the tension arm and the tension lever. (Refer to Fig. 2-10-1.)
- Remove the grip ring (b) which secures the tension arm. Raise the tension arm upward to remove it from the shaft.
- Detach the tension regulation spring S from the tension regulating arm S and the tension lever.
- Detach the safety lever spring from the safety lever and the tension lever.



- H. Raise the tension lever avoiding the main brake S and remove the lever from the shaft. (Refer to Fig. 2-10-3.)
- I. Raise the tension regulation arm S and remove it from the shaft.
- J. While turning the main brake S slightly clockwise to separate the brake from the supply reel disk, and raise the supply reel disk to remove it from the shaft. (Refer to Fig. 2-10-3.)



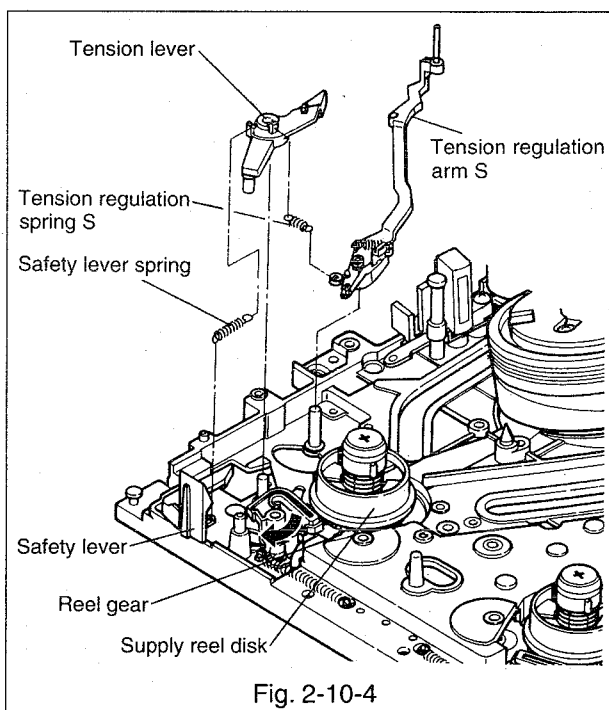
2-10-2 Installation (Refer to Fig. 2-10-4~2-10-7.)

- A. Turn the main brake S slightly clockwise to separate it from the supply reel disk shaft, and mount the supply reel disk on the shaft so that the reel gear meshes with the gear of the supply reel disk.
- B. Assemble the tension regulation arm S to the shaft.
- C. Assemble the tension lever to the shaft avoiding the main brake S.

Note:

Install the tension lever so that the pin at the lower part of the lever shall be in front of the slot in the main plate (viewing the front).

- D. Fasten the safety lever spring to the safety lever and the tension lever.
- E. Fasten the tension regulation spring S to the tension regulation arm S and the tension lever.



- F. Assemble the tension arm to the shaft and secure the arm with the grip ring (b). (Refer to Fig. 2-10-5.)
- G. Fasten the tension spring to the tension arm and the tension lever. (Refer to Fig. 2-10-5.)
- H. Assemble the T band holder to the main plate with care not to score or dirty the tension brake belt, and secure the holder with the screw (a) lightly. (Refer to Fig. 2-10-5.)

Note:

In the assembly of the T band holder, make certain that the hook of the holder positively engages with the reverse side of the main plate.

If the hook is difficult to engage with the main plate, push the hook lightly with a small screw driver etc. (Refer to Fig. 2-10-2.)

- I. Separate the main brake S and the tension regulation arm S from the supply reel disk and make certain that the disk turns freely. (Refer to Fig. 2-10-3.)
- J. Place the reel disk height adjusting jig (Part Number 859C342O20) in the reference position on the main plate. (Refer to Fig. 2-10-6.)
- K. Slowly turn the jig about point A and make sure that the height of the supply reel disk flange agrees with the point B on the supply disk adjusting side of the jig (marked SP). (Refer to Fig. 2-10-7.)
- L. If the height of the disk is not satisfactory, hold the disk so that it does not turn, and turn the height adjusting screw at the top of the disk to adjust the height. (Refer to Fig. 2-11-3.)
 - A) Turn the screw clockwise if the measured height is low.
 - B) Turn the screw counterclockwise if the measured height is high.
- M. On completion of adjustment, lock the height adjusting screw by burning it with the tip of the hot iron.
- N. Install the cassette housing as in Para. 2-1-2.
- O. Adjust back tension and tension pole position as outlined in Para. 3-1.

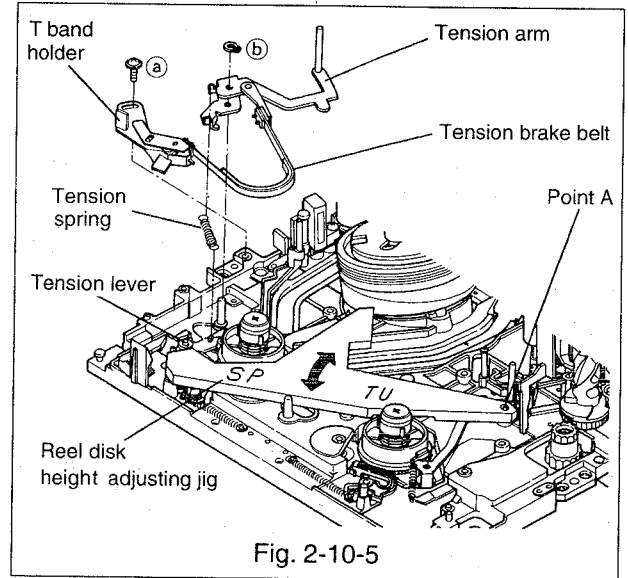


Fig. 2-10-5

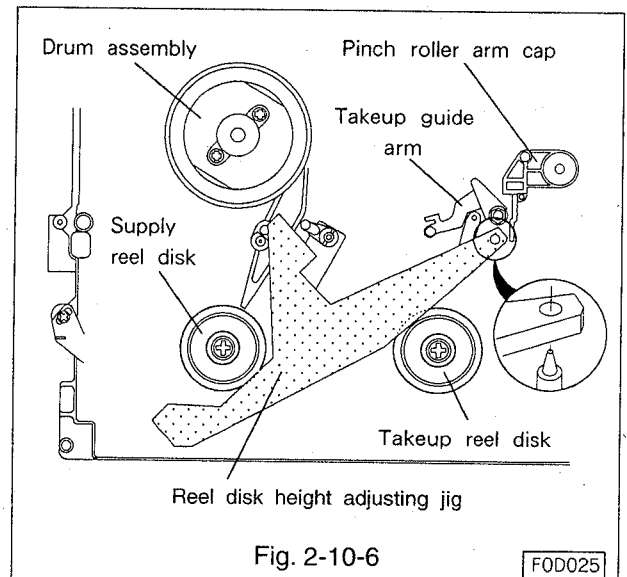


Fig. 2-10-6

F0D025

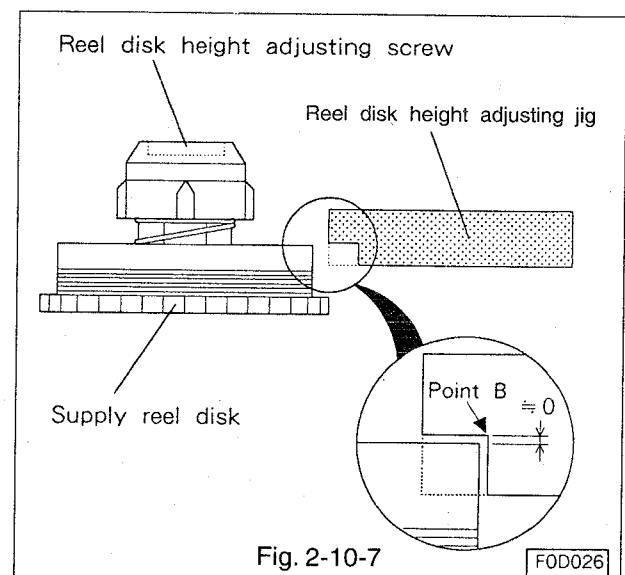


Fig. 2-10-7

F0D026

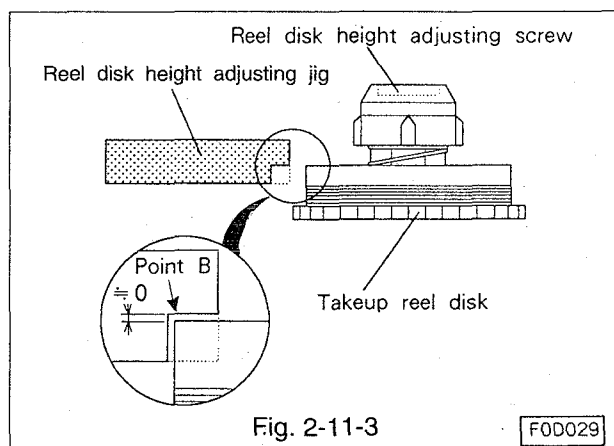
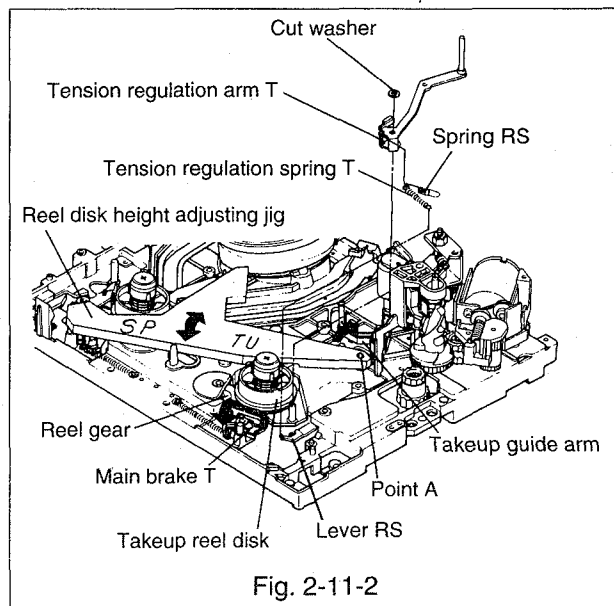
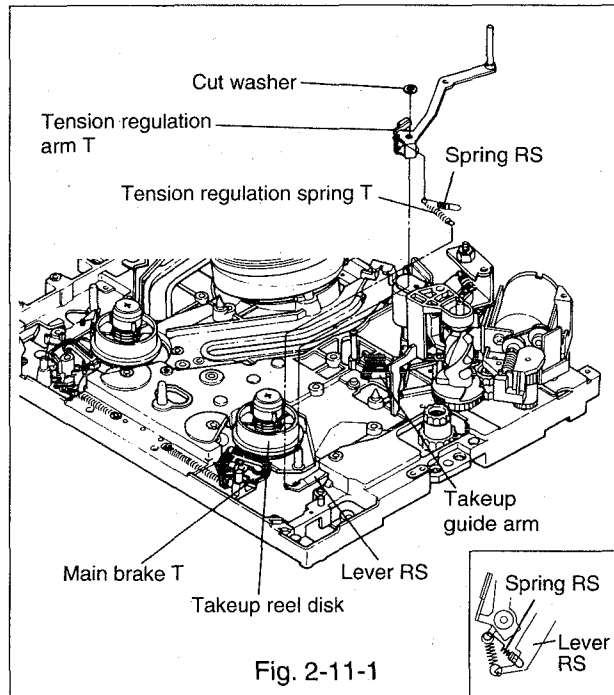
2-11 Takeup Reel Disk

2-11-1 Removal(Refer to Fig. 2-11-1.)

- Remove the cassette housing as in Para. 2-1-1.
- Detach the spring RS and the tension regulation spring T from the tension regulation arm T and the lever RS.
- Remove the cut washer which fastens the tension regulation arm T.
- Turn the takeup guide arm slightly clockwise and raise the tension regulation arm T to remove it from the shaft.
- Turn the main brake slightly counter-clockwise to separate the brake from the takeup reel disk and raise the disk upwards to remove it from the shaft.

2-11-2 Installation(Refer to Fig. 2-11-2, 2-11-3.)

- Turn the main brake T slightly counter-clockwise to release the takeup reel disk shaft. Slip the takeup reel disk onto the shaft so that the gear of the takeup reel shall mesh with the reel gear.(Refer to Fig. 2-11-2.)
- Turn the takeup guide arm slightly clockwise and install the tension regulation arm T to the shaft. Secure the arm with a cut washer.
- Fasten the tension regulation spring T and the spring RS to the tension regulation arm T and the lever RS.
- Separate the main brake T and the tension regulation arm T from the takeup reel disk and make certain that the takeup reel disk turns freely.
- Place the reel disk height adjusting jig (Part Number 859C342O20) in the reference position on the main plate. (Refer to Fig. 2-10-6.)
- Turn the jig slowly about the point A towards the takeup reel disk to make certain that the height of the disk flange agrees with the point B on the takeup side of the jig(marked TU). (Refer to Fig. 2-11-3.)
- If the height of the disk is not satisfactory, hold the disk so that it shall not turn, and turn the height adjusting screw at the top of the disk to adjust the height. (Refer to Fig. 2-11-3.)
 - Turn the screw clockwise if the measured height is low.
 - Turn the screw counterclockwise if the measured height is high.
- On completion of height adjustment, lock the adjusting screw by burning it with the tip of the hot iron.
- Install the cassette housing as in Para. 2-1-2.



F00029

2-12 A/C Head

2-12-1 Removal (Refer to Fig. 2-12-1, 2-12-2.)

- Disconnect the connector from the PCB A/C HEAD. (Refer to Fig. 2-12-1.)
- Remove the nut which fastens the A/C head assembly.
- Raise upwards and remove the A/C head assembly from the shaft by paying attention to the A/C arm spring which turns the A/C head assembly clockwise.
- Remove three A/C head fastening screws (a ~ c) and the A/C spring shown in Fig. 2-12-2, and remove the A/C head from the A/C arm.
- Unsolder the PCB A/C HEAD from the A/C head. (Refer to Fig. 2-12-2.)

2-12-2 Installation (Refer to Fig. 2-12-1~2-12-3.)

- Solder the PCB A/C HEAD to the A/C head. (Refer to Fig. 2-12-2.)
 - Fasten the A/C head to the A/C arm with three screws (a ~ c) and the A/C spring.
- Note:**
Install the A/C head to the A/C arm so that the base surface of the A/C head shall be parallel to the A/C arm, and their spacing and the A/C head installation screw (c) height shall be as specified in Fig. 2-12-3.
- Assemble the A/C head assembly to the shaft while turning the A/C arm spring counter-clockwise about 60°. (Refer to Fig. 2-12-1.)
 - Tighten the A/C head assembly fastening nut so that the base surface of the A/C head shall be about 7mm above the main plate surface. (Refer to Fig. 2-12-3.)
 - Plug in the connector to the PCB A/C HEAD. (Refer to Fig. 2-12-1.)
 - Conduct the A/C head adjustment and the phase adjustment as outlined in Para. 3-3 and 3-4.

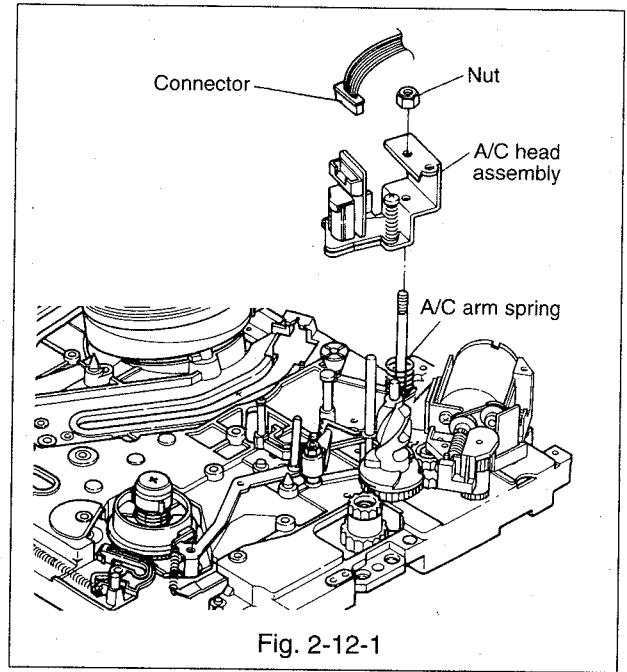


Fig. 2-12-1

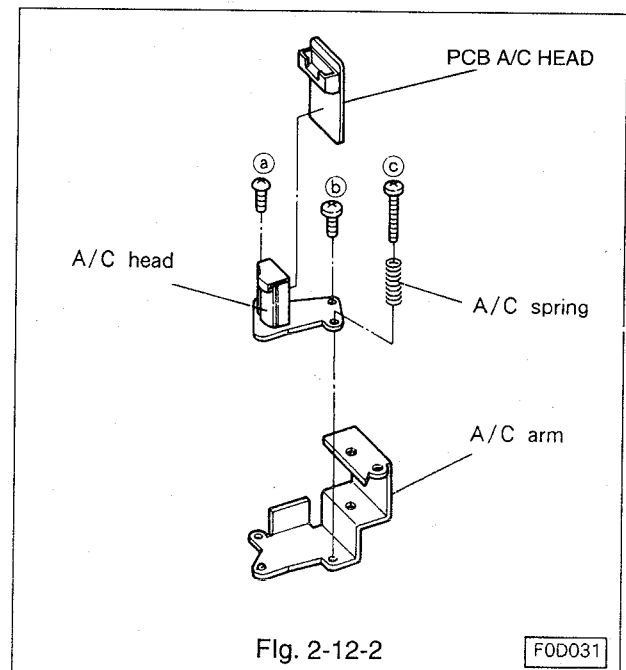


Fig. 2-12-2

F0D031

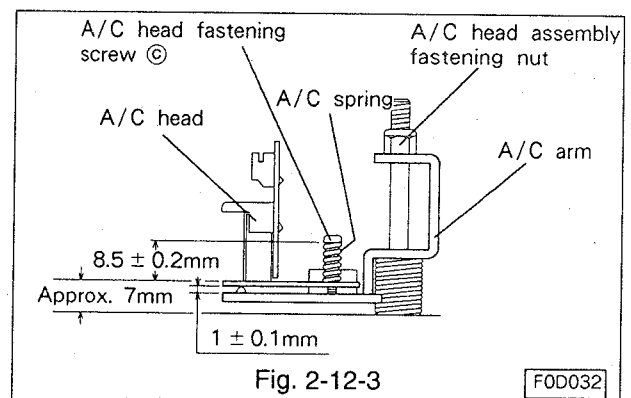


Fig. 2-12-3

F0D032

2-13 Take Up Guide Arm

2-13-1 Removal(Refer to Fig. 2-13-1.)

- Set the VCR in the eject mode.
- Remove the pinch roller arm assembly.
(Refer to Para. 2-8 "Pinch Roller")
- Raise and separate the pinch roller cam and the TU-G gear arm from the shaft at the same time.
- Remove the takeup guide arm fastening nut. Raise and separate the takeup guide arm from the shaft with care not to lose the TU-G spring.

2-13-2 Installation(Refer to Fig. 2-13-1~2-13-3.)

- Install the TU-G spring and the takeup guide arm so that one end of the TU-G spring is fastened to the takeup guide arm and the other end is fastened to the hook of the main plate. Secure them with the fastening nut temporarily.
- Place the reel disk height adjusting jig(for the F deck) in the reference position on the main plate(Refer to Fig. 2-10-6). Tighten the takeup guide arm fastening nut so that the lower flange of the takeup guide arm is level with point B of the height adjusting jig(for the E deck).
(Refer to Fig. 2-13-2.)
- Turn the takeup tension lever fully clockwise as shown in Fig. 2-13-1.
- Line the matching mark on the TU-G gear arm and beginning of gear section on the takeup guide arm, and line the matching mark on the pinch roller cam and center of gear on the joint gear as shown in Fig. 2-13-3, and install the pinch roller cam and the TU-G gear to the shaft at the same time.
- Assemble the pinch roller arm assembly to the shaft on the main plate.(Refer to Fig. 2-13-1.)
- Secure the pinch roller arm assembly with the pinch roller arm cap and the grip ring.

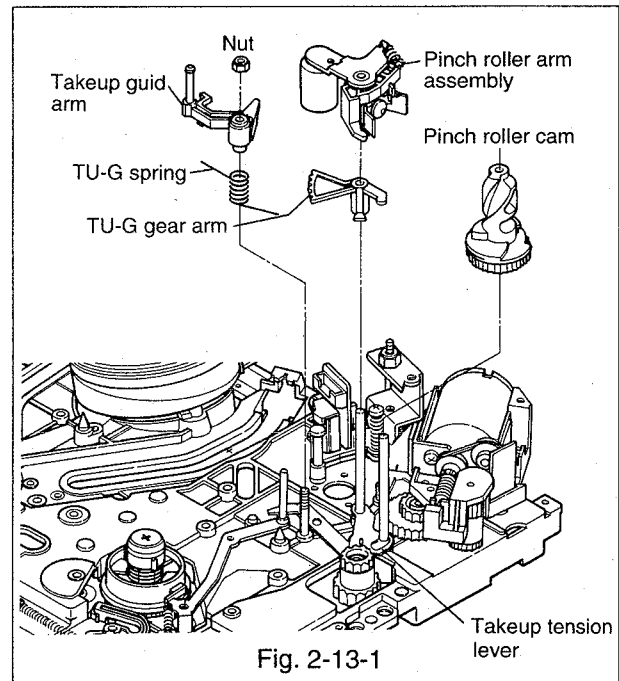


Fig. 2-13-1

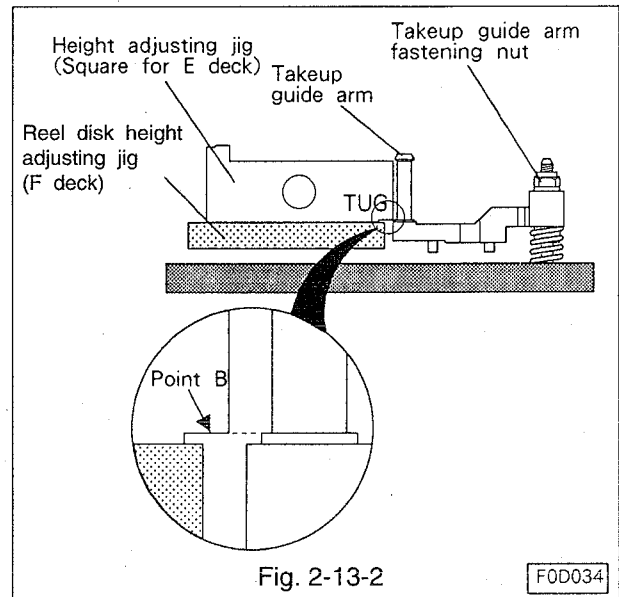


Fig. 2-13-2

F0D034

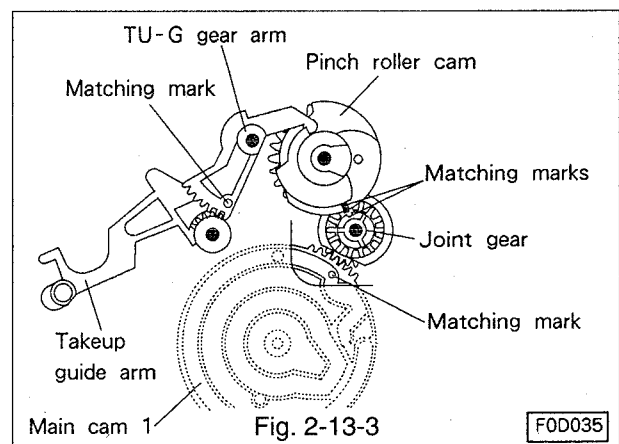


Fig. 2-13-3

F0D035

2-14 PCB Deck(Printed Circuit Board)

2-14-1 Removal(Refer to Fig. 2-14-1, 2-14-2.)

- Detach the capstan brake spring from the capstan brake and the loading gear arm.(Refer to Fig. 2-14-1.)
- Remove the reel belt from the bottom of the deck.(Refer to Fig. 2-5.)
- Detach two grip rings (f) shown in Fig. 2-14-2 and remove the loading gear arm.
- Unsolder the terminals of the FE head.(Refer to Fig. 2-14-1.)
- Unfasten the catches and remove the F/L gear 2, 3 and 4.(Refer to Fig. 2-14-2.)
- Remove grip ring (g) and cut washer (h), and unfasten three catches shown in Fig. 2-14-3 to remove the cam plate B.(Refer to Fig. 2-14-2.)
- Unscrew five fastening screws (a ~ e) and remove the PCB DECK.(Refer to Fig. 2-14-2.)

2-14-2 Installation(Refer to Fig. 2-14-1~2-14-3.)

- Make certain that the mode switch is set to the eject position.(Refer to section 2-9.) Fasten the PCB DECK with five screws and solder the FE head terminals.(Refer to Fig. 2-14-1.)
Note:
The safety lever is normally held leftward with a spring. Pull the safety lever forwards and install the PCB DECK.
- Install the cam plate B by paying attention to the pin (a ~ g) positions shown in Fig. 2-14-3, and secure the plate with three catches, grip ring (g) and cut washer (h).
- Line the matching mark on the loading arm T and that on the loading gear arm as shown in Fig. 2-14-3, and assemble the loading gear arm so that the pin of the loading gear arm shall enter the groove of the main cam 2. Secure the loading gear arm with two grip rings (f).
- Assemble the F/L gear 2, 3, and 4 to the shafts.(Refer to Fig. 2-14-2.)
- Install the reel belt.(Refer to Fig. 2-5.)
- Fasten the capstan brake spring to the capstan brake and the loading gear arm from the top side of the deck.(Refer to Fig. 2-14-1.)

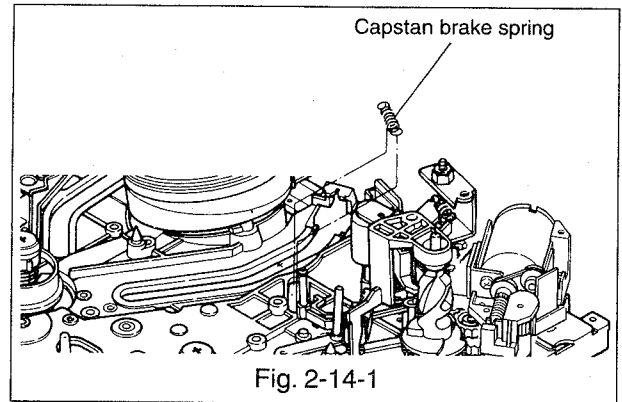


Fig. 2-14-1

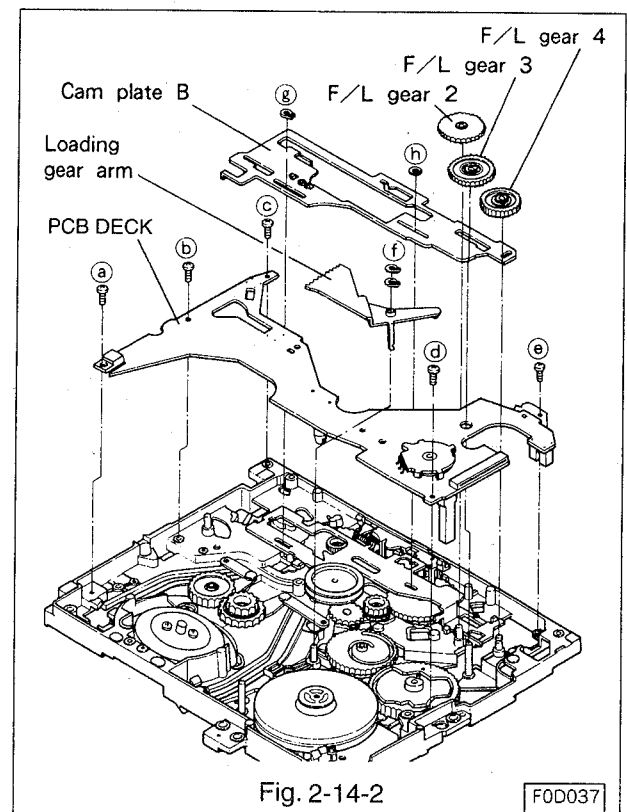


Fig. 2-14-2

F0D037

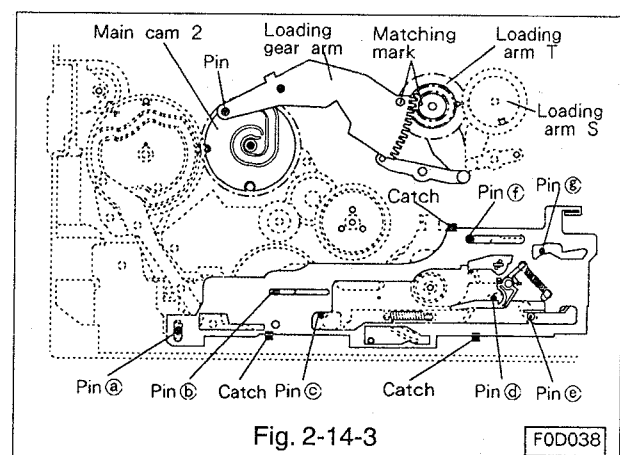


Fig. 2-14-3

F0D038

2-15 Positioning and Installation Sequence of Parts Around Main Cam 1 (Bottom Side of Deck) (Refer to Fig. 2-15-1~2-15-6.)

Note:

Set the VCR to the eject mode to install the main cam 1 and its peripheral parts.

- A. Line the positioning hole in lever RS to that of the main plate, and assemble lever RS to the shaft. (Refer to Fig. 2-15-1.)
- B. Line the positioning hole in lever C with that of the main plate, and assemble lever C to the shaft.
- C. Take care not to move the lever RS and lever C, assemble the main cam 1 to the shaft by lining the matching mark of the joint gear with the positioning hole of main plate. Secure the main cam 1 with the grip ring. (Refer to Fig. 2-15-2.)

Note:

The pins of the lever RS and the lever C enter the groove of the main cam 1 when the levers are lined with the positioning holes.

Make certain that the pins of the levers enter the groove of the main cam 1.

- D. Assemble the thrust washer to the pin (c) shown in Fig. 2-15-2, and install the cam plate C so that the corresponding positions of the plate match the pins (a ~ g).
- E. Fasten cam spring C to the cam plate C and the cam plate holder. (Refer to Fig. 2-15-2.)
- F. Assemble lever B to the shaft so that the pin of the lever shown in Fig. 2-15-3 enters the groove of the main cam 1. Secure the lever with a grip ring.
- G. Line the positioning hole of the F/L idler lever with that of the main plate. (Refer to Fig. 2-15-3.)

Note:

The pin of the F/L idler lever enters the groove of the main cam 2 when the positioning hole of the F/L idler lever is aligned.

Make certain that the pin of the lever enters the groove of the main cam 2.

- H. Line the matching mark of main cam 2 with that of main cam 1, and also the positioning hole of the main cam 2, and assemble the main cam 2 to the shaft. (Refer to Fig. 2-15-3.)

Note:

Make certain that the pin of the F/L idler lever correctly enters in the groove of the main cam 2.

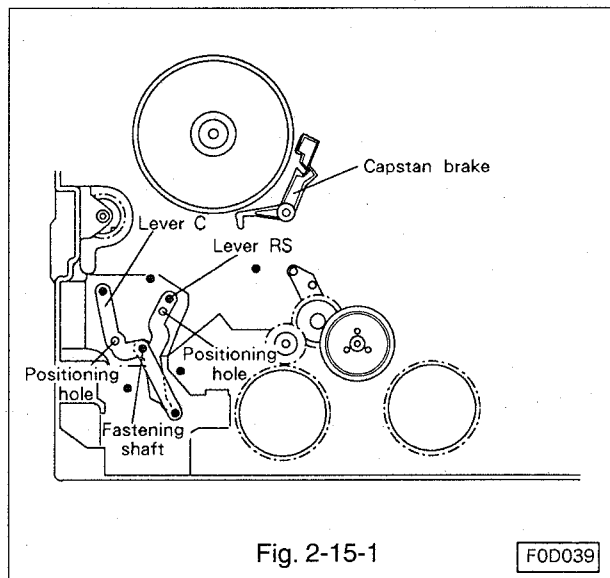


Fig. 2-15-1

F0D039

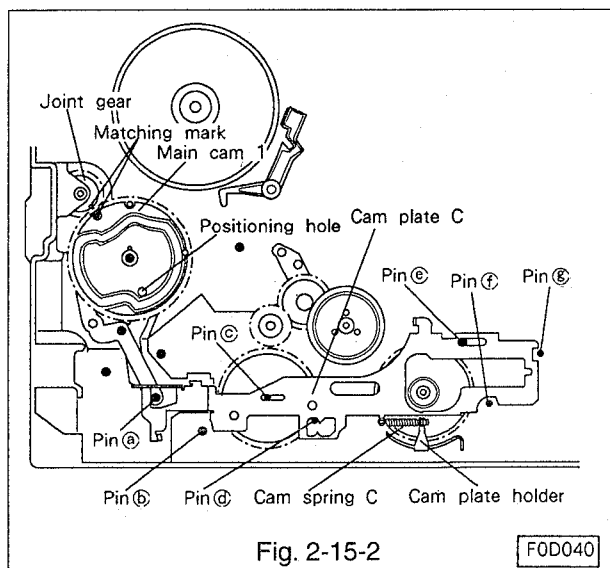


Fig. 2-15-2

F0D040

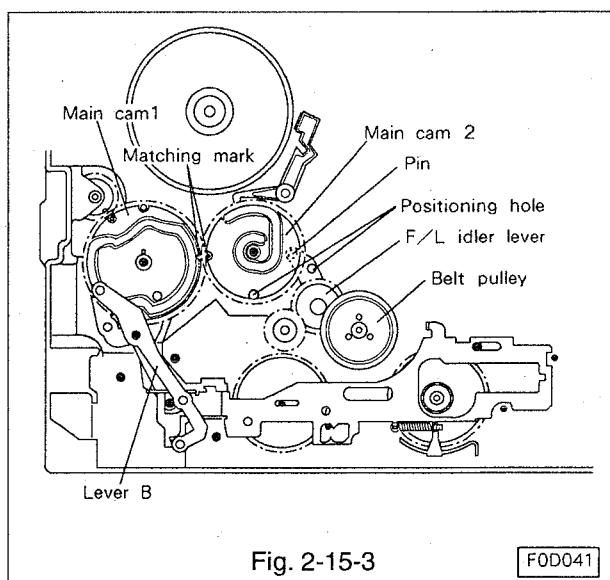


Fig. 2-15-3

F0D041

- I. Make certain that the mode switch is in the eject position. Fasten the PCB DECK assembly with five screws and solder the FE head terminals. (Refer to Fig. 2-14-2 and 2-14-1.)

Note:

The safety lever is normally held in the leftward position by the spring. Pull the lever forwards and install the PCB DECK assembly.

- J. Install the cam plate B so that the plate matches pins (a ~ g) as shown in Fig. 2-15-4, especially pin (e), and secure the plate with three clamps, cut washer (pin (b)) and grip ring (pin (f)).
- K. Line the matching mark of loading arm T with that of the loading gear arm as shown in Fig. 2-15-4, and assemble the loading gear arm to the shaft so that the pin of the loading gear arm enters the groove of the main cam 2. Secure the arm with two grip rings (f). (Refer to Fig. 2-15-5.)
- L. Assemble the F/L gear 2, 3, and 4 to the shafts as shown in Fig. 2-15-5.
- M. Install the reel belt. (Refer to Fig. 2-5.)
- N. Fasten the tension regulation spring T and the spring RS to the tension regulation arm T and the lever RS from the top side of the deck. (Refer to Fig. 2-11-1.)
- O. Fasten the capstan brake spring to the capstan brake and the loading gear arm from the top side of the deck. (Refer to Fig. 2-15-6.)

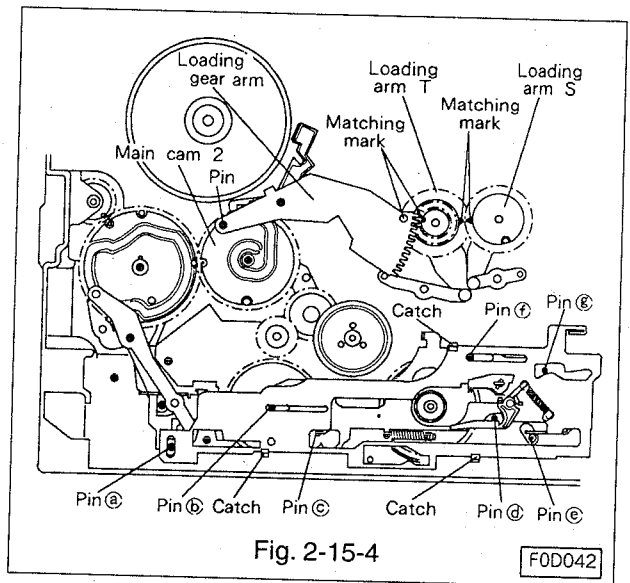


Fig. 2-15-4

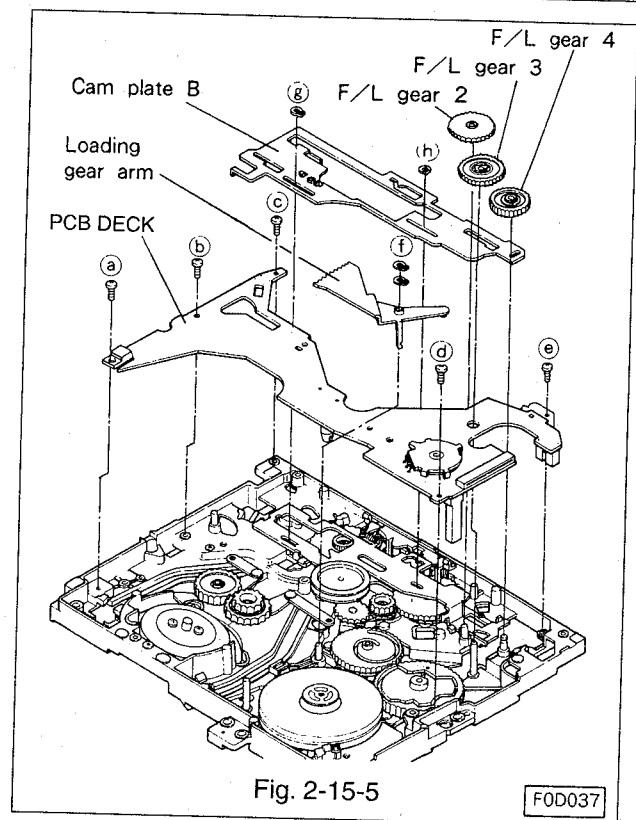


Fig. 2-15-5

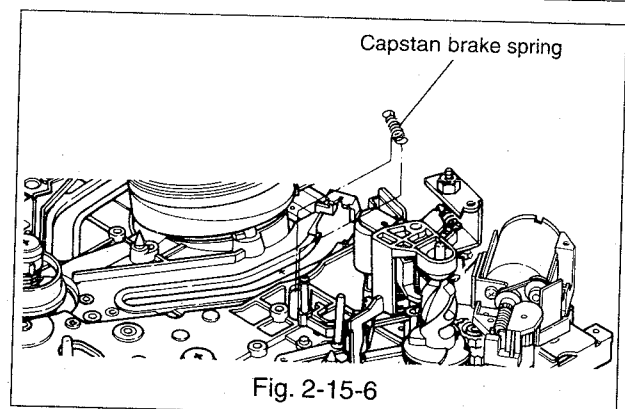


Fig. 2-15-6

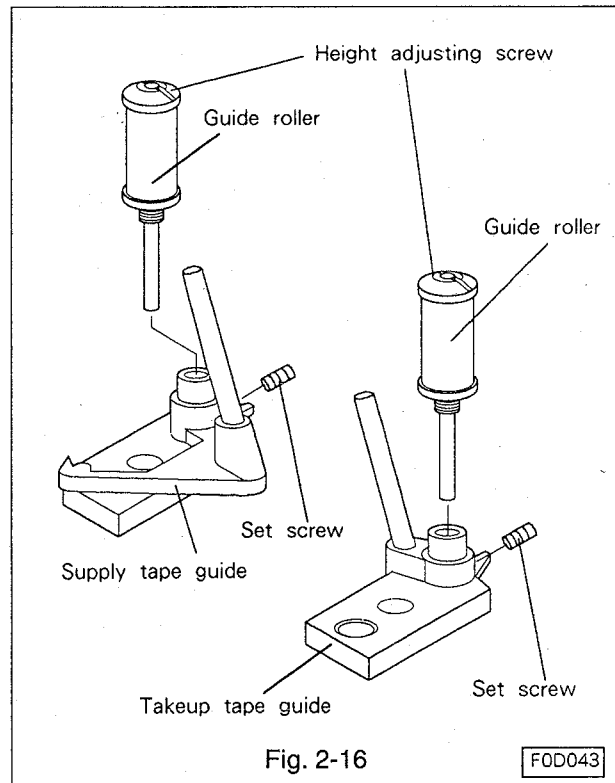
2-16 Supply and Takeup Guide Rollers

2-16-1 Removal(Refer to Fig. 2-16.)

- A. Remove the cassette housing as in Para. 2-1-1.
- B. Loosen the set screw so the guide roller turns freely.
- C. Loosen the guide roller height adjusting screw located at the top of the guide roller by turning counterclockwise with the height adjusting screwdriver. Raise and remove the roller from the tape guide.

2-16-2 Installation(Refer to Fig. 2-16.)

- A. Make certain that the fastening thread section of a new guide roller is provided with a rubber ring.
- B. Set the new guide roller in the tape guide fastening hole.
- C. Turn the guide roller slowly clockwise till it becomes heavy.
- D. Turn further about 1/6 turns from a point where the guide roller becomes heavy, and return the roller about one turn counter-clockwise.
- E. Again turn the guide roller slowly clockwise till it becomes heavy. Turn the roller further about 1/6 turn from the point where the roller becomes heavy.
- F. Secure the guide roller lightly with the set screw. Check and adjust the envelope as in Para. 3-2.



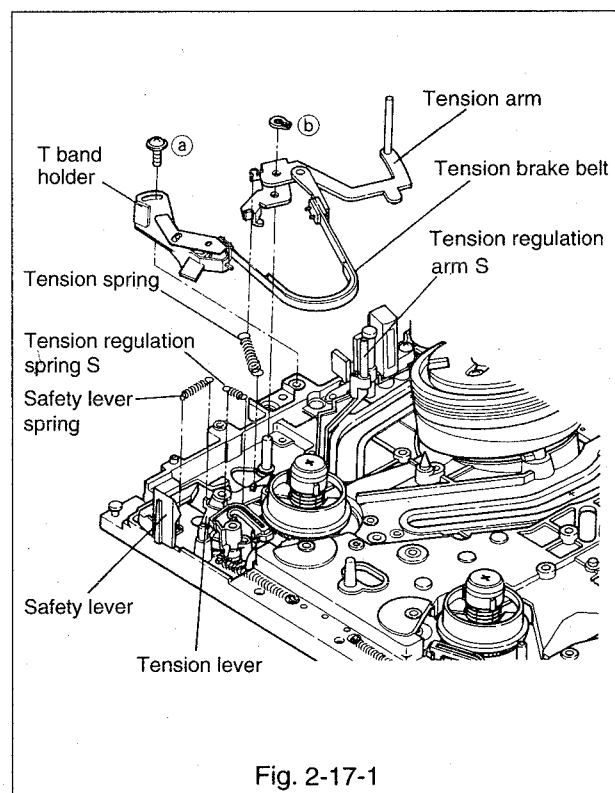
2-17 Supply and Takeup Tape Guide Assemblies

Note:

Refer to section 3-2-7 and 3-3-3 before replacing the supply or takeup tape guide assemblies.

2-17-1 Removal(Refer to Fig. 2-17-1~2-17-4.)

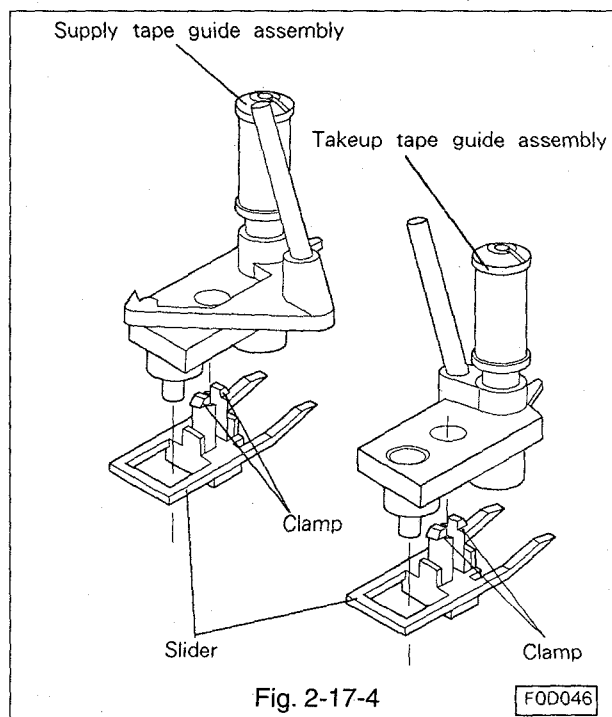
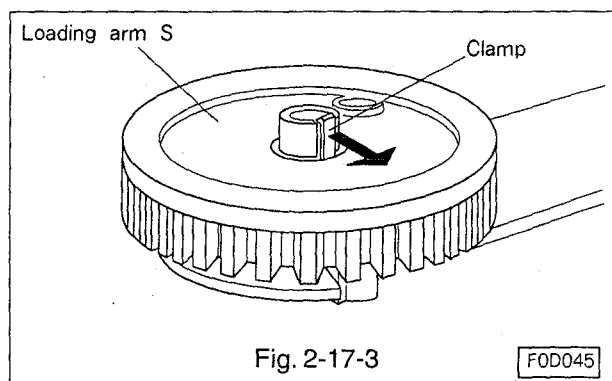
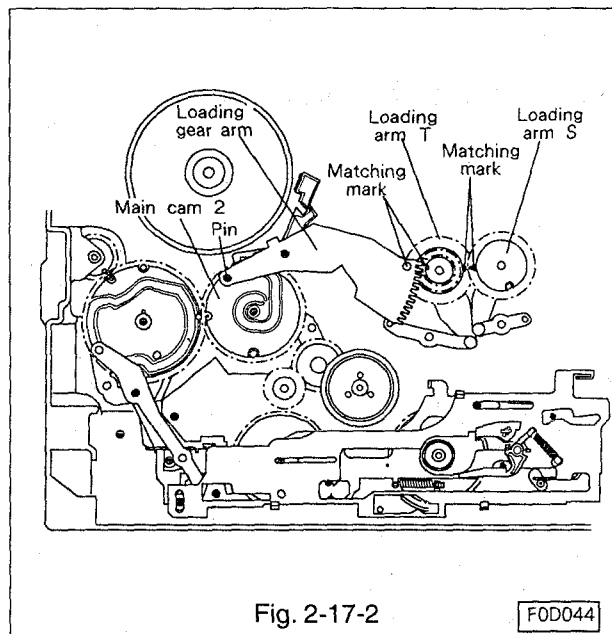
- A. Remove the cassette housing as in Para. 2-1-1.
- B. Detach the capstan brake spring from the capstan brake and the loading gear arm.(Refer to Fig. 2-15-6.)
- C. Remove the reel belt. (Refer to Fig. 2-5.)
- D. Secure the tension arm and the tension regulation arm S with a rubber band etc. so as to separate them from the supply guide roller.(Refer to Fig. 2-17-1.)



- E. Remove the grip ring and remove the loading gear arm.(Refer to Fig. 2-17-2.)
- F. Turn the loading arm S and T to the loading position.(Refer to Fig. 2-17-2.)
- G. Unfasten the clamp shown in Fig. 2-17-3, and remove loading arm S.
- H. Remove the loading arm T is being replaced the takeup guide assembly.
- I. Unfasten the clamp of the slider which secures the supply or takeup tape guide assembly, and remove the tape guide assembly and the slider from the main plate.(Refer to Fig. 2-17-4.)

2-17-2 Installation(Refer to Fig. 2-17-1~2-17-4.)

- A. Place a new tape guide assembly on the installation rail of the main plate and install the slider on the reverse side of the main plate so that the catch of the slider enters the fastening hole of the tape guide assembly.
- B. If the takeup tape guide is replaced, install the loading arm T first.(Refer to Fig. 2-17-2.)
- C. Install the loading arm T so that the matching mark of the loading arm S is lined with the matching mark of the loading arm T as illustrated in Fig. 2-17-2.
- D. Line the matching mark of the loading gear arm with that of the loading arm T, and assemble the loading gear arm to the shaft so that the pin of the loading gear arm enters the groove of the main cam 2. Secure the loading gear arm with two grip rings.
- E. Install the reel belt.(Refer to Fig. 2-5.)
- F. Fasten the capstan brake spring to the capstan brake and the loading gear arm from the top side of the deck.(Refer to Fig. 2-17-1.)
- G. Install the cassette housing as in Para. 2-1-2.



3. Interchangeability Adjustment of Mechanism

Note:

Tracking may need to be preset in the inter-changeability adjustment of the mechanism.

Digital tracking should be preset. To preset pull, rotate and set TRACKING knob at the centre click position.

Note:

The adjustment is conducted in the playback mode, using the stair step signal of the alignment tape, connect an oscilloscope to TP2A and external Trig. to TP2H, unless other-wise specified.

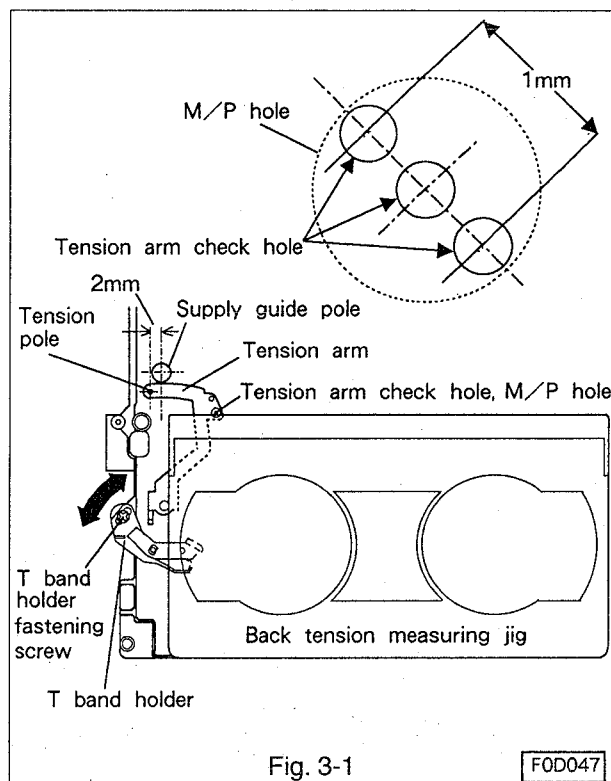
3-1 Adjustment of Back Tension and Tension Pole Position(Refer to Fig. 3-1.)

Run a blank tape for several minutes to break in the reel disks and the transport before beginning the adjustment.

- A. Set the back tension measuring jig and set the VCR to the playback mode.
- B. When the running of the tape becomes steady, make certain that the tension arm check hole is within the M/P hole of the main plate($0 \pm 0.5\text{mm}$) or the interval between the centre of tension pole and the centre of Supply guide pole is $2.0 \pm 0.5\text{mm}$.
- C. If neither the centre of Tension pole nor the tension arm check hole is in position, loosen the T band holder fastening screw lightly and move the T band holder so that the condition specified by the para.B is satisfied.
- D. On completion of adjustment, tighten the T band fastening screw.
- E. Make certain that the reading of the back tension measuring jig is $50 \pm 6\text{g-cm}$.
- F. When the running of the tape is steady, check visually to make certain that the deflection of the Tension pole is 1mm or less.

Note:

Slight fluctuation of back tension may be tolerated, however if fluctuation exceeds 5g-cm, the reel disk etc. may be defective. Examine and correct the defect.



3-2 Check and Adjustment of FM Envelope

3-2-1 Guide Roller Adjustment(Refer to Fig. 3-2-1.)

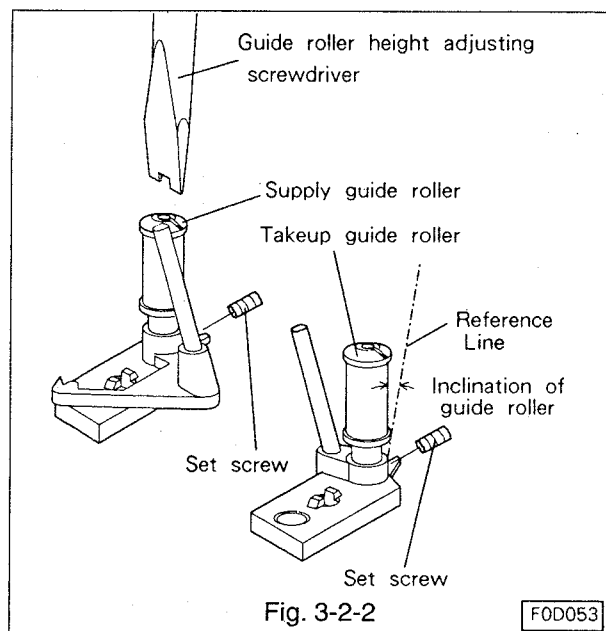
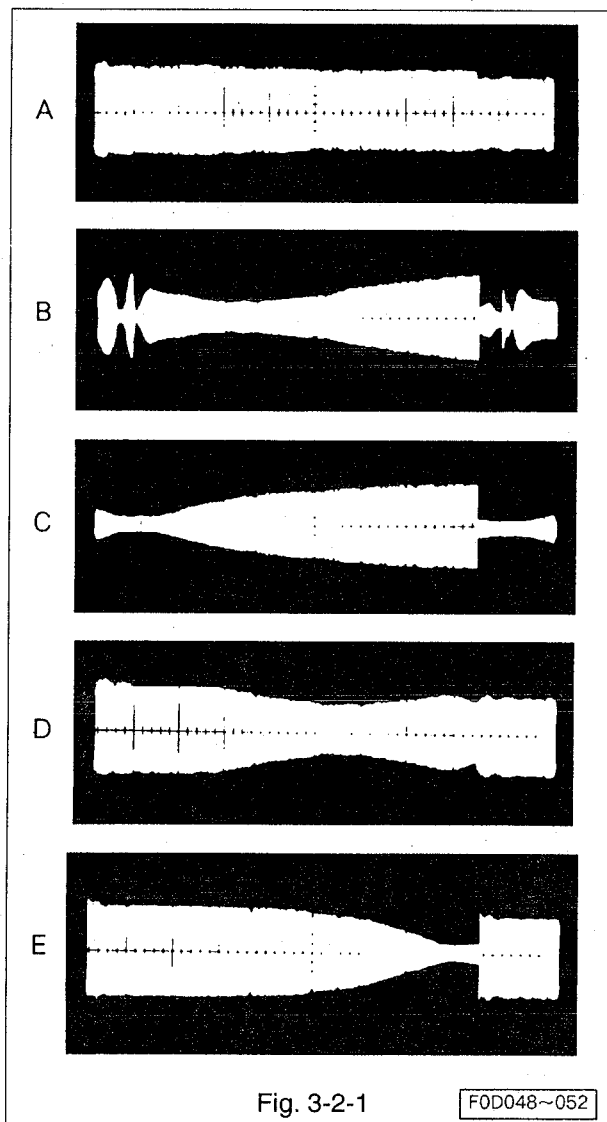
- Play back an alignment tape. (PS2: gray scale step, Part No. 859C339O10)
- Pull, rotate and set TRACKING knob at the center click position.
- Check if the FM waveform is flat like A shown in Fig. 3-2-1.
- Adjust the height of the supply guide roller as in 3-2-2 if the leading portion (the entry side of the drum) of the FM waveform is not flat like B or C.
Adjust the height of the takeup guide roller as in 3-2-3 if the trailing portion (the exit side of the drum) is not flat like D or E.

3-2-2 Adjustment of Supply Guide Roller Height (Refer to Fig. 3-2-1, 3-2-2.)

- Loosen the set screw to such a degree as the supply guide roller turns lightly.(Refer to Fig. 3-2-2.)
- The supply guide roller is low if the leading portion(the entry side of the drum) of the FM waveform is like B, and high if like C. Adjust the height of the roller by turning the adjusting screw at the top of the roller so that the FM waveform shall be flat like A.
 - Turn the adjusting screw counterclockwise if the roller is low.
 - Turn the adjusting screw clockwise if the roller is high.
- Carry out the coarse adjustment of phase as in 3-2-4.

3-2-3 Adjustment of Takeup Guide Roller Height (Refer to Fig. 3-2-1, 3-2-2.)

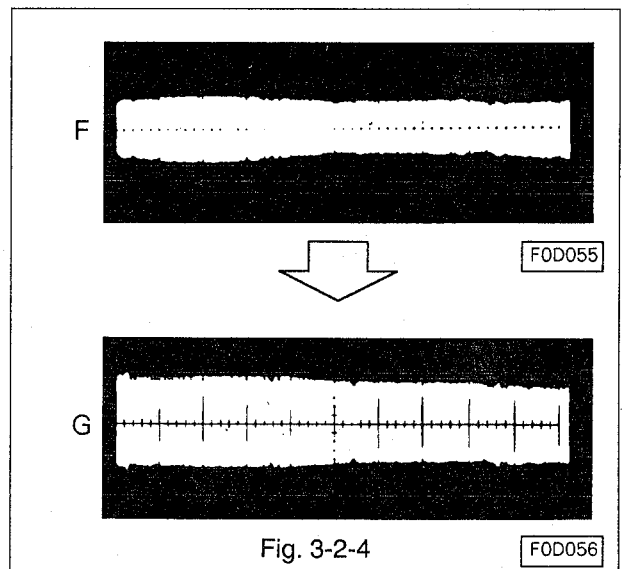
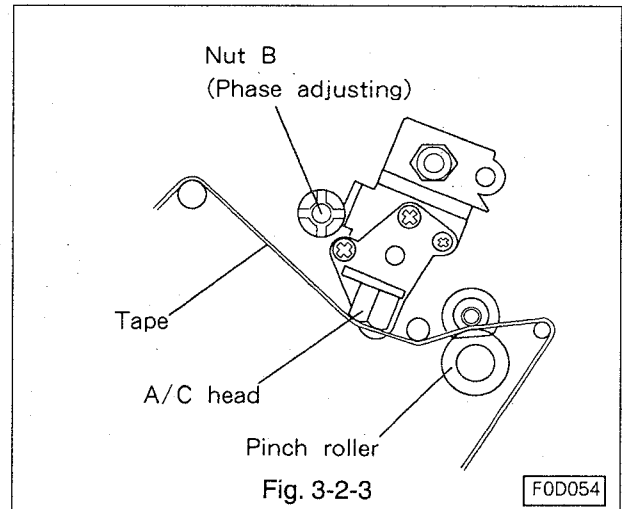
- Loosen the set screw to such a degree as the takeup guide roller turns lightly.(Refer to Fig. 3-2-2.)
- The takeup guide roller is low if the trailing portion(the exit side of the drum) of the FM waveform is like D, and high if like E. Adjust the height of the roller by turning the adjusting screw at the top of the roller so that the FM waveform shall be flat like A.
 - Turn the adjusting screw counterclockwise if the roller is low.
 - Turn the adjusting screw clockwise if the roller is high.
- On completion of height adjustment, adjust the azimuth and height of the A/C head as in 3-3-2.
- Coarsely adjust the phase as in 3-2-4.



3-2-4 Coarse Phase Adjustment

(Refer to Fig. 3-2-3, 3-2-4.)

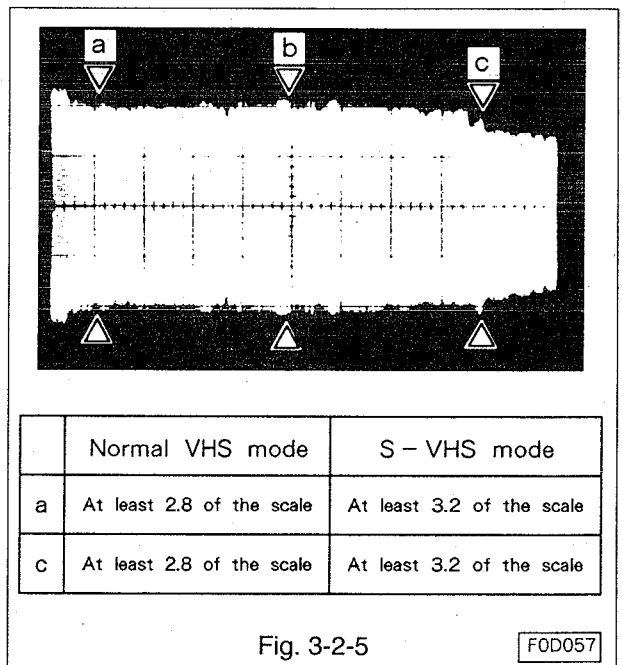
- Play back an alignment tape. (PS2: grey scale step, Part No. 859C339O10)
- Pull, rotate and set TRACKING knob at centre click position.
- Check the FM waveform after checking and adjusting the guide rollers.
- If the amplitude of the FM waveform is narrow like F because of out of phase, adjust the phase adjusting nut so that the amplitude of the FM waveform is maximum.



3-2-5 Check of FM Waveform Flatness

(Refer to Fig. 3-2-5.)

- Play back an alignment tape. (PS2: grey scale step, Part No. 859C339O10)
- Pull the TRACKING knob. Vary tracking and check if the amplitude changes and the waveform remains flat.
- Adjust tracking in the manual mode so that the amplitude is maximum, and adjust the oscilloscope so that the amplitude is '5' on the scale of the oscilloscope.
- Adjust tracking so that the amplitude at the middle (around the point 'b') of the FM wave form is about 80% ('4' on the scale of the scope) of the maximum amplitude. Make certain that the amplitudes at points 'a' and 'c' satisfy the requirements given in Fig. 3-2-5.
- If deviating from the requirements, conduct the check and adjustment of the FM envelope beginning with 3-2.



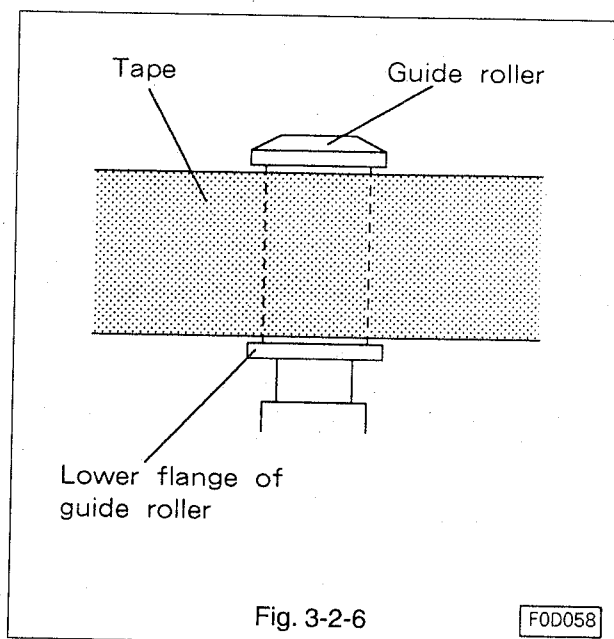
3-2-6 Check 1: Tape Running Condition on Guide Rollers (Refer to Fig. 3-2-6.)

- Play back a blank tape.
- Visually check if there is a space between the tape and the lower flange of the supply and the take up guide roller.
- If not, replace the tape guide as in 3-2-7.

Note:

In this case the tape guide should be replaced with the tape guide which has a larger inclination.

- If the supply tape guide is replaced, check the guide roller as in 3-2-1.
If the take up tape guide is replaced, check the guide roller as in 3-2-3, and the waveform flatness as in 3-2-5.
- Load and unload the tape several times to make certain that the flatness of the FM waveform dose not change.
- If changes occur, check the A/C arm shaft for looseness.
If not free, replace the A/C arm and adjust the audio/control head as in 3-3.

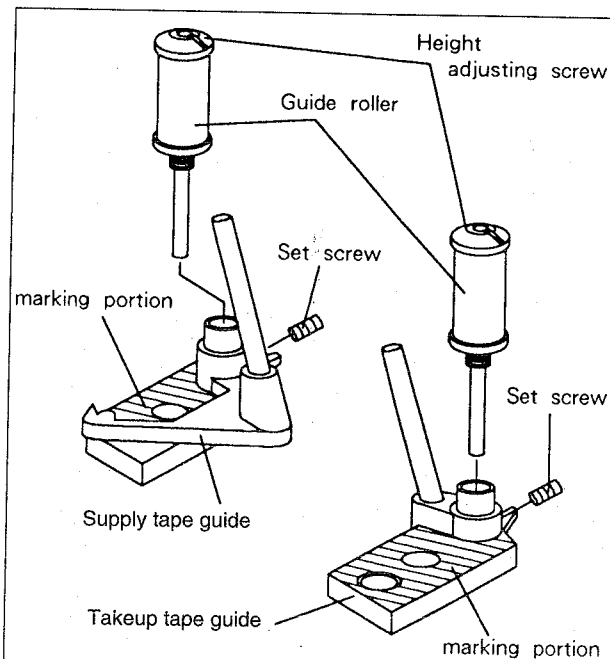


3-2-7 Replacement of Tape Guides

- Identify the Item Number of the tape guide to be replaced.
This is done by observing the marking present on the die-cast portion of the tape guide base, and comparing that marking to Fig. 3-2-7.
- If the Item Number of the tape guide presently installed is a '2', replace the guide with an Item Number '1' guide. (Part No. 635B059010)
- If the Item Number of the present tape guide is a '1', replace the guide with an Item Number '3' guide.
- If the Item Number of the present tape guide is a '3', replace the guide with other Item Number '3' guide.
- Once the tape guide is replaced, resume alignment starting with 3-2-1.

3-2-8 Check 2: Tape Running Condition on Guide Rollers

- Play back a blank tape.
- Press the head of the supply guide roller and the take up guide roller lightly, and release the roller. Check if the FM waveform is quickly restored to the previous level.
- If the FM waveform is not restored quickly, replace the tape guide as in 3-2-7.
- If the supply tape guide is replaced, check the guide roller as in 3-2-1.
If the takeup tape guide is replaced, check the guide roller as in 3-2-1, and check the FM waveform as flatness as in 3-2-5.
- If satisfactory, tighten the set screw of the guide roller on the supply side and the take up side.



Identification of Tape Guide Item Number
(Example ; Parts No. 635B059010)

Item No. 1

Item No.1	No marking
Item No.2	Marked with black magic marker
Item No.3	Marked with red magic marker

※The marking point is marked in the oblique line portion shown in figure above.

Fig. 3-2-7

3-3 Adjustment of Audio/Control Head

3-3-1 Adjustment of A/C Head Slant

(Refer to Fig. 3-3-1.)

- Play back a blank tape.(E-240)
- Turn the screw C slowly clockwise to crease the bottom edge of the tape slightly by the lower flange of the takeup guide pole.
- Turn the screw C slowly counterclockwise to eliminate the crease of the bottom edge of the tape.
- Turn the screw C slowly clockwise again and stop turning just before the tape is creased.

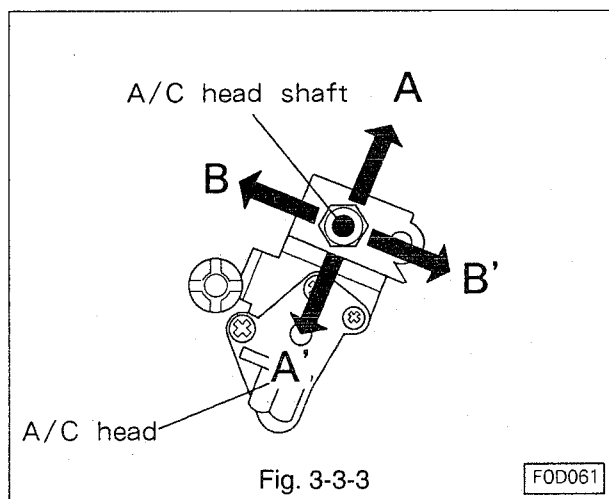
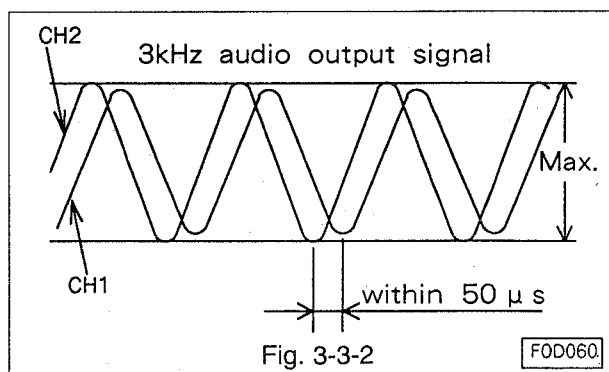
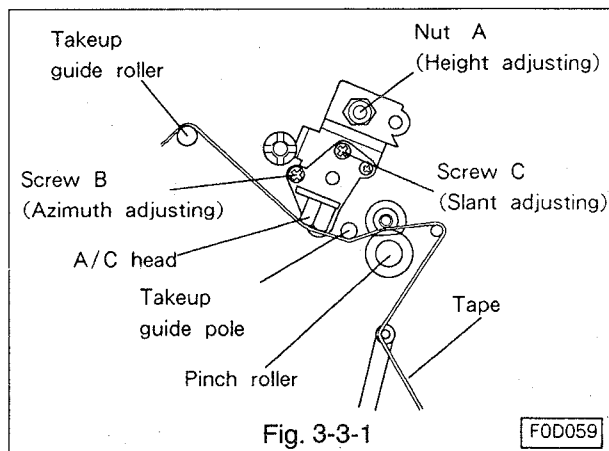
3-3-2 Adjustment of A/C Head Azimuth and Height(Refer to Fig. 3-3-1~3-3-3.)

- Connect CH-1 of NORMAL AUDIO OUT to CH-1 of an oscilloscope, and the CH-2 to the CH-2. Play back an alignment tape. (PS2: no video signal, Part No. 859C339O10)
- Rotate Nut A (height adjusting) and Screw B (azimuth adjusting) so that both levels of Ch-1 and Ch-2 are maximum. If both levels are not set to the maximum, prefer maximum of CH-2 level.
- Adjust Screw B (azimuth adjusting) so that phase difference between CH-1 to CH-2 is within 50 μ s.
- Repeat item 2 above and then make sure the below:
CH-1 and CH-2 output level: 500 mV and more
CH-1 and CH-2 ratio : 84% and more
Phase difference between CH-1 and CH-2: within 50 μ s.
(If not as the above conditions, repeat items B to D above.)
- Turn the A/C head counterclockwise and release it to make certain that the audio output level does not change.
- If the level changes, check if the A/C arm shaft is loose. If not free, replace the A/C arm and adjust the slant of the A/C head as in 3-3-1 and the azimuth and height of the A/C head from beginning.
- Apply a force lightly to the A/C head shaft in the direction of A and A' of the arrow shown in Fig. 3-3-3 to make certain that the audio output level remains at maximum level and does not change.
- If the level changes, turn the nut A(height adjusting)so that the audio output level is maximum. Apply a force lightly to the A/C head shaft in the direction of B and B' of the arrow shown in Fig. 3-3-3 and adjust so that the sound output level is maximum.
- Check the sound output level in the playback mode to make sure that the fluctuation of the level is less than 1dBp-p.
- If the fluctuation exceeds 1dBp-p, adjust the slant of the A/C head and the azimuth and height of the head.
- If this is still not satisfactory, replace the takeup tape guide as outlined in 3-3-3.

Note:

In this case the tape guide should be replaced with a guide which has less inclination.

- Record(or Play back) an blank tape (E-120) in SP mode. See if the tape is drifting on takeup guide pole. If so, repeat Adjustment of A/C Head Slant (item 3-3-1) to avoid tape drifting.
- On completion of the above adjustment,adjust phase as in 3-4.



Identification of Tape Guide Item Number
(Example ; Parts No. 635B060010)
Item No.

Item No.1	No marking
Item No.2	Marked with black magic marker
Item No.3	Marked with red magic marker

※The marking points are marked in the tops of the Takeup and Supply tape guides.(Refer to Fig. 3 - 2 - 7)

Fig.3-3-4

3-3-3 Replacement of Tape Guides

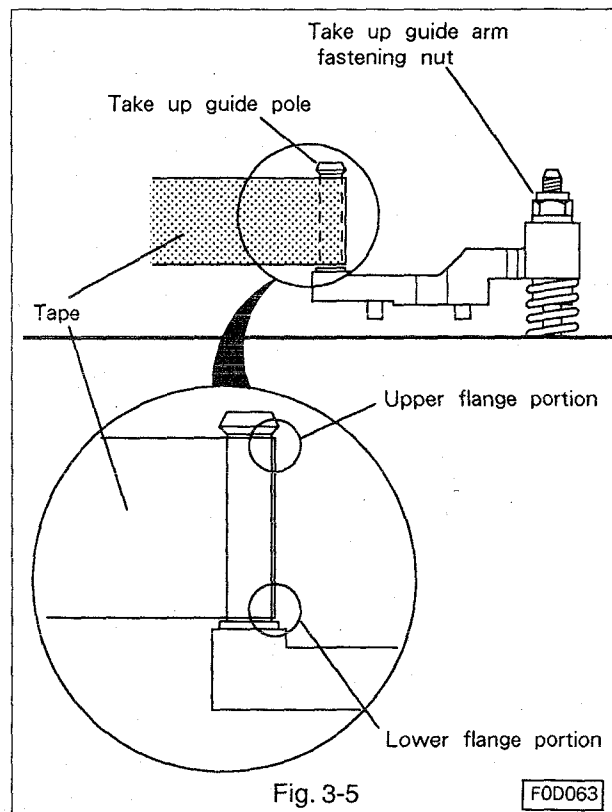
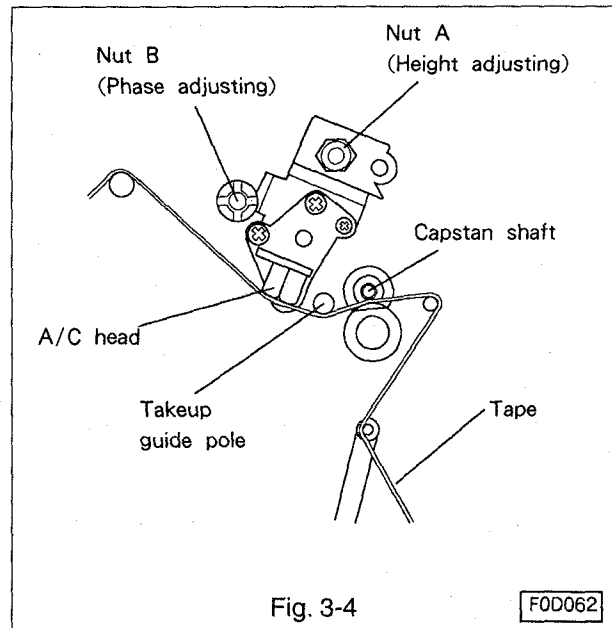
- A. Identify the Item Number of the Tape Guide to be replaced. This is done by observing the marking present on the die-cast portion of the Tape Guide base, and comparing that marking to Fig. 3-3-4.
- B. If the Item Number of the tape guide presently installed is a '3', replace the guide with an Item Number '1' guide.
- C. If the Item Number of the present tape guide is a '1', replace the guide with an Item Number '2' guide.
- D. If the Item Number of the present tape guide is a '2', replace the guide with other Item Number '2' guide.
- E. Once the tape guide is replaced, resume alignment starting with 3-2-1.

3-4 Phase Adjustment(Refer to Fig. 3-4.)

- A. Play back an alignment tape. (PM3KE6 (CH 1) 25, Part No. 859C568O50)
- B. Pull, rotate and set TRACKING knob at the center click position.
- C. Turn the phase adjusting nuts to make the amplitude of the FM waveform maximum.
Note:
Do not turn the phase adjusting nut more than one turn in either direction.
- D. Turn the A/C head counterclockwise and return to make sure that the amplitude of the FM waveform is the same as that before turning the head.
- E. If the amplitude changes, check the A/C arm shaft if loose. If not free, replace the A/C arm and adjust the A/C head as in 3-3 and the phase as in this section from beginning.
- F. Load and unload the tape several times to make certain that the amplitude of the FM waveform does not change.

3-5 Adjustment of Takeup Guide Arm Height (Refer to Fig. 3-5.)

- A. Run a final portion of E-240 blank tape in the reverse search mode.
- B. Adjust the height of the takeup guide pole by turning the height adjusting nut so that the tape shall not be creased at the upper and the lower flange portion of the take up guide pole.
Note:
Set the adjusting nut in the screwing-in direction.
Do not turn the nut more than one turn in either direction.
- C. Eject the cassette tape and set to the reverse search mode again to make certain that the tape is not creased at the upper and the lower flange portion of the takeup guide pole.
- D. Set to the playback mode and be sure that the tape is not creased at the upper and the lower flange portion of the takeup guide pole.



GLOSSARY OF ABBREVIATIONS

A/C	: Audio/Control	LIM	: Limiter
ACC	: Automatic Color Control	LPF	: Low-Pass Filter
A.E	: Audio Erase	LM	: Loading Motor
AFC	: Automatic Frequency Control		
AFT-D	: Automatic Fine Tuning Door Switch	MDA	: Motor Drive Amplifier
AGC	: Automatic Gain Control	MC	: Mechanical Control
AL	: After Load	MIC	: Microphone
AMP	: Amplifier	MOD	: Modulator
ANT	: Antenna		
A-PB	: Audio-Playback	N	: Not Normal
A-REC	: Audio-Recording		
ALC	: Automatic Level Control	OPE	: Operation
		OSC	: Oscillator
B-FS	: Brake Forward Search	O-PWV	: ON/OFF Command from Remote Decoder
B-RS	: Brake Reverse Search		
BPF	: Band-Pass Filter	PB	: Play Back
B/W	: Black and White	PG	: Pulse Generator
BS	: Band SW	P/R-SW	: P.B/REC-SW
		PCB	: Printed Circuit Board
CASS	: Cassette	PIC	: Picture Control
CP	: Capstan	P/R	: Play/Record
CP-FG	: Capstan-Frequency Generator	PSC	: Pulse swallow control
CP-F/R	: Capstan-Forward/Reverse	PWT-SET	: Power TV Set
CP-M	: Capstan-Motor	PWV	: ON/OFF Command to B+ Switching Circuit
CONV	: Converter		
CTL	: Control	REC	: Recording
C-LAMP	: Cassette Lamp	REF	: Reference
C-I LAMP	: Cassette Indicator Lamp	RIS	: Record Inhibit Switch
CE	: Chip Enable	REW	: Rewind
CE	: Not Chip Enable	REG	: Regulator
CK	: Clock	RS	: Reverse Search
CL	: Clear	REC-2	: Record Command for the Fine Editing Circuit
CNT	: Counter	R-FS	: Reel Drive Forward Search
CP R-R	: Capstan Reverse Rotation	R-P/R	: Reel Drive Play/Record
CS-1	: Cassette Switch 1		
CS-2	: Cassette Switch 2	S/AL	: Stop After Load
		SL	: Slow
DAL	: Delay-After Loading	SLOK	: Slow OK
DEMODO	: Demodulator	S/P	: Still/Pause
DET	: Detector	SS	: Start Sensor
DL	: Delay Line	SRV-REC	: Servo Record
DL-REV	: During Reverse	SS	: Not Speed Search
DL-FWD	: During Forward	S-STOP	: Stop Command
DOC	: Drop Out Compensator	STOK	: Still OK
DL-SL	: During Slow	STW	: Stop Watch
DL-SS	: During Not Speed Search	SENS	: Sensor
DOP	: Drop Out Pulse	STBY	: Stand By
EF	: Emitter Follower	TM	: Take up Motor
EMPHA	: Emphasis	T-REC	: Timer-Record
EQ	: Equalizer	T.P	: Test Point
EE	: Electronic-Electronic	TR	: Transistor
ES	: End Sensor	TU-P	: Tuner-Power
FE-H	: Full Erase Head	UL	: Unload
FF	: Fast Forward		
FG	: Frequency Generator	VS	: Voltage Synthesizer
FL-SW	: Front Loading SW	V.SYNC	: Vertical Sync
FLM	: Front Loading Motor	VCO	: Voltage Controlled Oscillator
F/R-SW	: FF/Rewind Switch	VXO	: Variable Crystal Oscillator
F/R	: Forward/Reverse		
FS	: Forward Search	W/D	: White/Dark
G	: Ground	X'OSC	: Crystal Oscillator
		Y/C	: Luminance/Chrominance
HE	: Hall Element		
H-LED	: Humidity-LED		
H-SENS	: Humidity-Sensor		
HPF	: High-Pass Filter		

CHIP PARTS REPLACEMENT

CHIP PARTS REPLACEMENT

Some resistors, shorting jumpers (0Ω resistor), ceramic capacitors, transistors and diodes are chip parts which are used for certain circuit elements. When replacing these parts, note the cautions as follows.

Cautions:

- Use fine tipped, well insulated soldering pencil (iron) about 30 watts and the tweezers.
- Melting the solder, remove the Chip Parts carefully not to tear off the copper foil of the printed circuit board.
- Discard removed chips; do not reuse them.
- Do not apply heat for more than 3 seconds to the new chip Parts.
- Avoid using a rubbing stroke when soldering.
- Take care not to scratch when soldering, or damage the Chip Parts.
- Supplementary cementing is not required.

1 Removal of chip Parts

(Resistors, capacitors, etc.)

- Grasp the part with tweezers. Melting the solder at both side alternately, remove the one side of the part with a twisting motion.
- Melt the solder at the other side and remove the part.

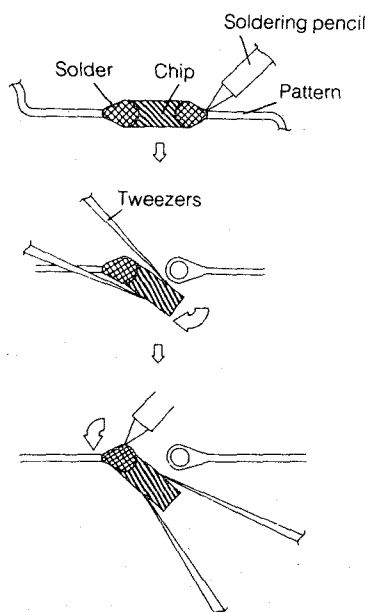


Fig. 1

2 Removal of Chip Parts (Transistors)

- Melting the solder of one lead, Lift the side of that lead upward.
- Simultaneously melt the solder of the two remaining leads and lift the part to remove.

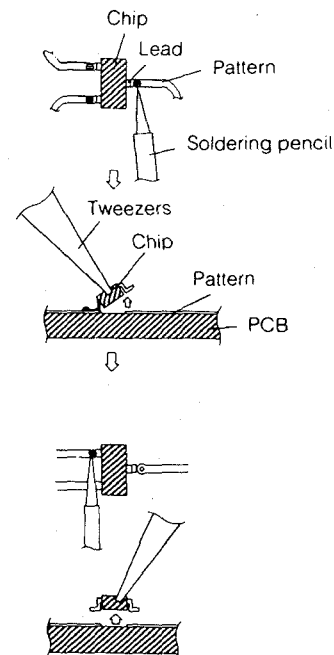


Fig. 2

3 Replacement

- Presolder the contact points of the circuit pattern.
- Press the part downward with tweezers and apply the soldering pencil as shown in the figure.

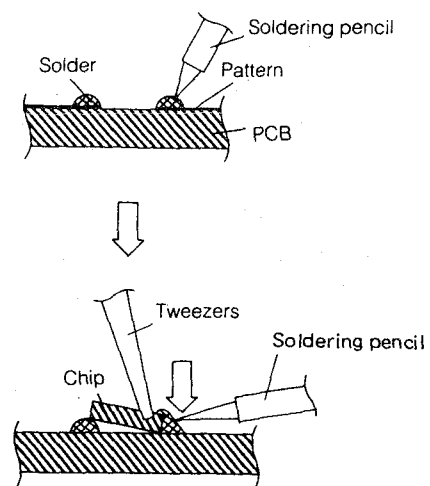
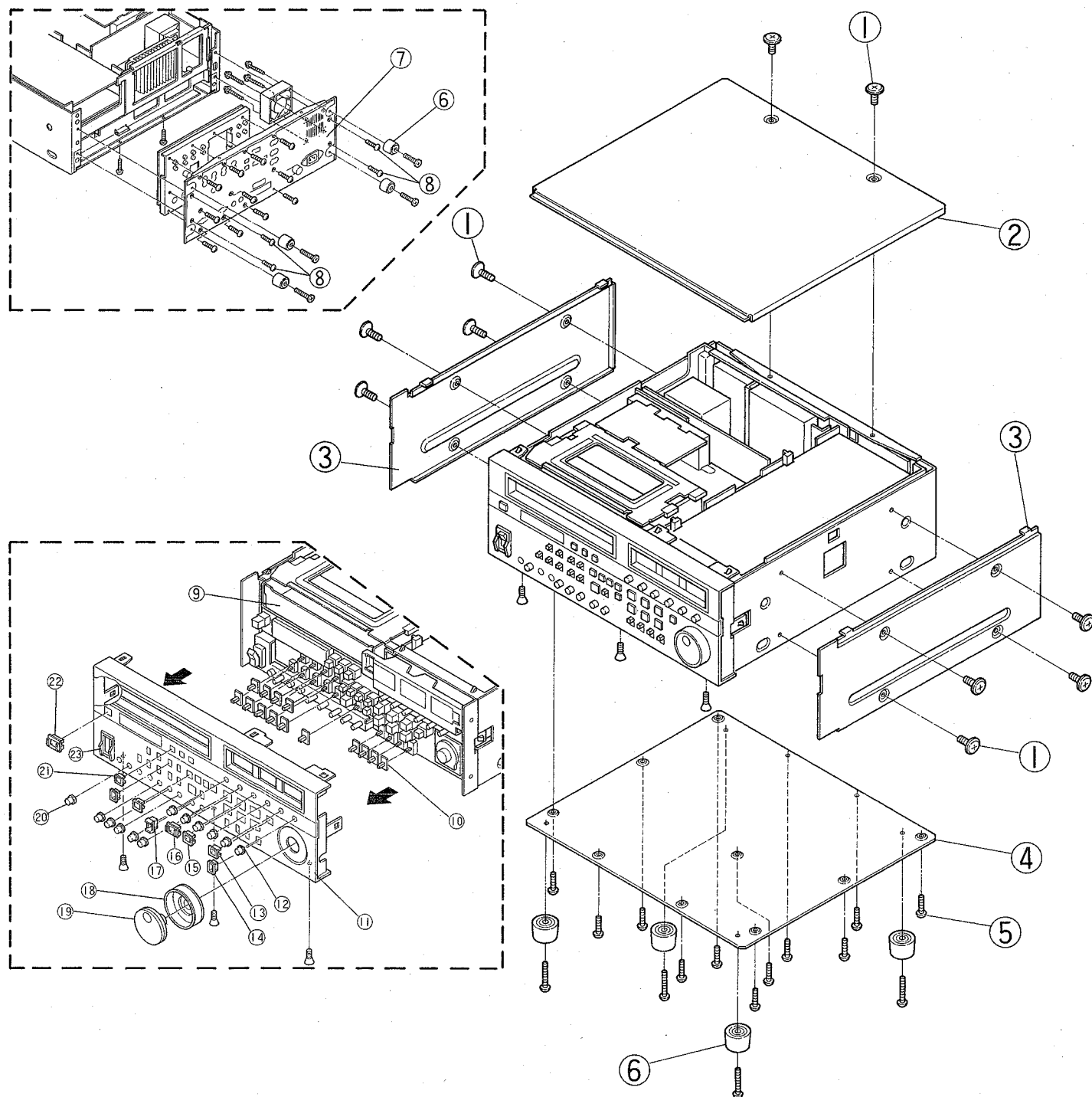


Fig. 3

PARTS LIST

1. CABINET ASSEMBLY



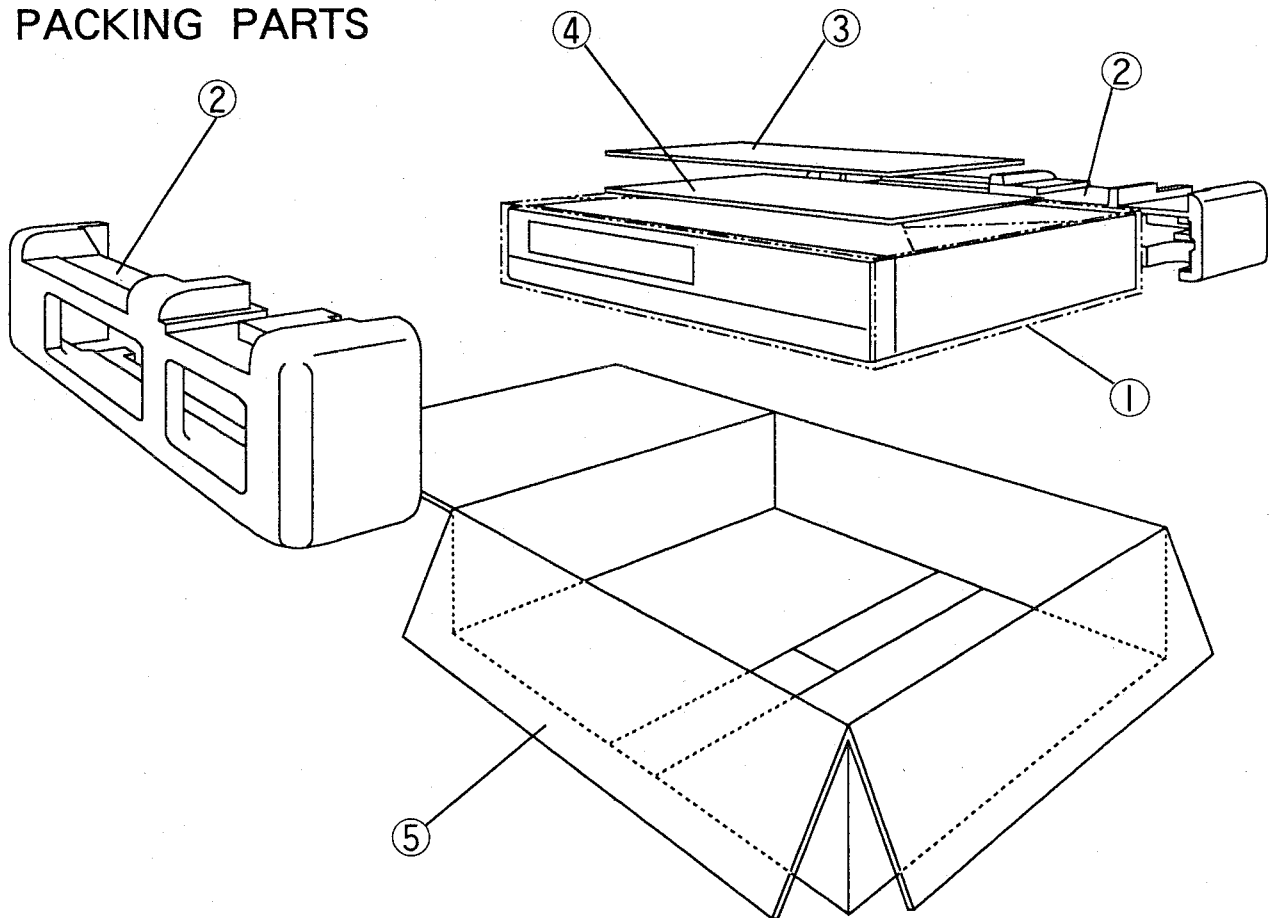
Note:

Broken AC power cord must be exchanged with a new original power cord.

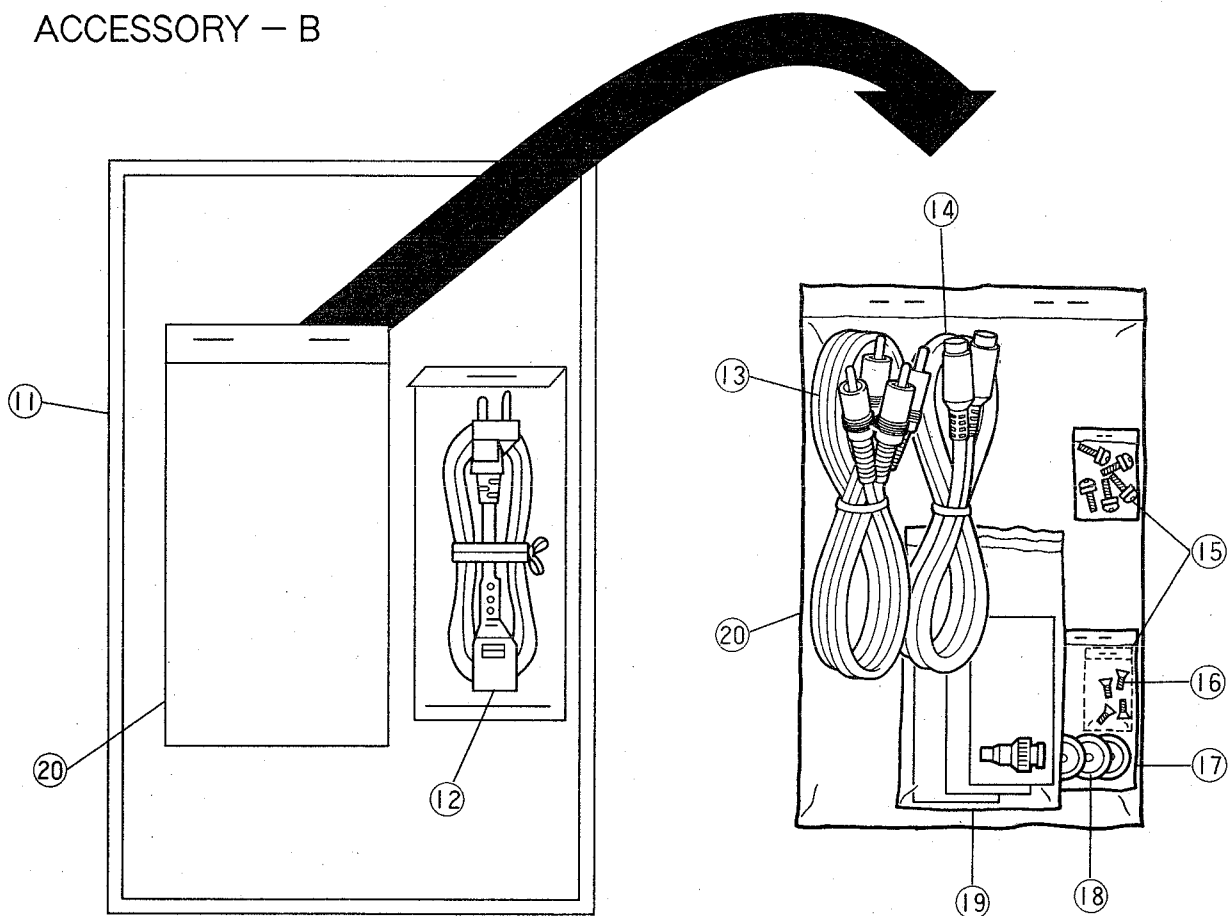
○ : NEW PARTS

ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
CABINET ASSEMBLY			
○ 1	669D425020	SCREW	4X8 P=.7
○ 2	710A068020	TOP PANEL	
○ 3	710A069030	SIDE PANEL	
○ 4	590A345010	BOTTOM PANEL	
○ 5	669D220030	SCREW	3X10 46LA005
○ 6	761D229010	PAD	TRANN-LEG
○ 7	710A070030	REAR PANEL ASSY	
○ 8	669D359030	SCREW	3X10
○ 9	702B836020	FRONT DOOR	
○ 10	734D544020	SLIDE KNOB	
○ 11	701B225030	FRONT UNIT	
○ 12	734D529030	CONTROL KNOB	
○ 13	703D105040	FRANGE-M	
○ 14	703D110020	FRANGE-SIDE	
○ 15	703D104020	FRANGE-L	
○ 16	703D108040	FRANGE-L-G	
○ 17	703D111020	FRANGE-SIDE	
○ 18	704C807020	SHUTTLE RING	
○ 19	704C806020	JOG DIAL	
○ 20	734D529040	CONTROL KNOB	
○ 21	703D105030	FRANGE-M	
○ 22	703D108030	FRANGE-G	
○ 23	703C045020	POWER SWITCH GUARD	

2. PACKING PARTS



ACCESSORY - B



○ : NEW PARTS

ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
PACKING PARTS			
○ 1	831D190050	PACKING SHEET	1050X1050
○ 2	803A264010	PACKING CUSHION	
3	-----	ACCESSORY-A	
4	-----	ACCESSORY-B	
○ 5	801C090040	PACKING CASE	[B]
○ 5	801C090020	PACKING CASE	[E]
ACCESSORY - A			
○	872C070070	INSTRUCTION BOOK	FOR ENGLISH
○	872C070030	INSTRUCTION BOOK	FOR GERMAN AND FRENCH
	831D181020	PACKING BAG	375X250X0.06 [E]
ACCESSORY - B			
○ 11	829C065010	BOX ACCESSORY	
12	242C897010	AC POWER CORD	[B]
12	242C795090	AC POWER CORD	[E]
13	242D335010	CABLE	S-S (4PIN) 1.5m
14	242C938010	PHONO CABLE	2P R&W 1.5m
15	831D252020	PACKING BAG	110X70X0.06
16	669D342030	SCREW	3X10
17	771D051010	PAD	
○ 18	831D252030	PACKING BAG	160X100X0.03
○ 19	452D173090	BNC/RCA CONNECTOR	
20	831D110080	PACKING BAG	150X280

3. ELECTRICAL PARTS

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
INTEGRATED CIRCUITS							
IC201	272P392010	IC	AN3334K	○ IC5A0	274P111010	IC	M37420M6-485SP
IC202	272P390010	IC	BA7604N	IC5A1	263P334010	IC	M50927-224SP
IC210	272P151010	IC	NJM2217L	IC5A2	263P053020	IC	TC4053BP
IC214	267P032010	IC	BX6386	IC5A3	263P053020	IC	TC4053BP
IC215	272P390010	IC	BA7604N				
IC2A0	272P474020	IC	M52084FP	IC5A4	263P011020	IC	TC4011BP
IC2A1	272P317020	IC	M52054FP	○ IC5001	274P117020	IC	M50747-1D7FP
IC2A2	272P390010	IC	BA7604N	IC5002	263P404010	IC	μ PD4712AGT
IC2A3	272P390010	IC	BA7604N	IC6A0	266P016010	IC	LA7016
IC2A4	266P620010	IC	AN608P	IC6A1	263P335010	IC	MC14013BF
IC2A5	272P518010	IC	MN3815	IC6C1	272P231020	IC	HA118054FP
IC2A6	263P653030	IC	MC14053BF	IC6C3	272P439010	IC	M52077P
IC2A7	267P034010	IC	EMP2 (B079-1)	IC6C4	272P516010	IC	M52059AFP
IC2000	272P565010	IC	TL8812F	IC6C5	272P277010	IC	BA7025L
IC2001	266P063020	IC	BA7022A	IC6C7	272P390010	IC	BA7604N
IC2002	272P517010	IC	NJM2228M	IC6001	272P520010	IC	M52093SP
IC301	272P060010	IC	BA7252S	IC700	267P032010	IC	BX6386
		(HEAD-AMP PCB ASSY)		IC702	272P518010	IC	MN3815
IC301	272P186010	IC	LM393M	IC703	272P518010	IC	MN3815
		(AUDIO PCB ASSY)		IC704	272P512010	IC	MN3109S
IC302	272P186010	IC	LM393M	IC705	272P439010	IC	M52077P
○ IC303	272P656010	IC	AV7310N	IC706	267P028050	IC	KIC-SUB (B075-5)
IC3A0	272P234010	IC	LA7295	IC710	267P049010	IC	SYNC-P (B090-1)
IC3A1	272P234010	IC	LA7295	○ IC801	274P112020	IC	μ PD75216ACW-C94
IC3A2	263P611010	IC	MC14011BF	IC802	263P179010	IC	M66311P
IC3A3	272P200020	IC	M5201L	IC803	263P118010	IC	μ PD7554G-622
IC3A4	272P376030	IC	XRA15218N	IC901	272P237010	IC	LA6324N
IC3A5	272P200020	IC	M5201L	TRANSISTORS			
IC3A6	272P376030	IC	XRA15218N	Q 200	260P855050	CHIP TRANSISTOR	2SC4081
○ IC3A7	263P666010	IC	MC14066BF	Q 201	260P562040	TRANSISTOR	2SA952-K
IC3A8	272P376030	IC	XRA15218N			(SIGNAL PCB ASSY)	
IC3A9	272P376030	IC	XRA15218N	Q 201	260P807010	CHIP TRANSISTOR	DTC124K
○ IC3B0	263P666010	IC	MC14066BF			(HEAD-AMP PCB ASSY)	
○ IC3X0	266P036010	IC	BA1104LS	Q 202	260P807010	CHIP TRANSISTOR	DTC124K
○ IC3X1	266P036010	IC	BA1104LS			(HEAD-AMP PCB ASSY)	
IC3001	272P376030	IC	XRA15218N	Q 202	260P859050	CHIP TRANSISTOR	2SA1576-R
IC3002	272P376030	IC	XRA15218N			(SIGNAL PCB ASSY)	
○ IC3003	263P666010	IC	MC14066BF	Q 203	260P807010	CHIP TRANSISTOR	DTC124K
IC3004	263P653010	IC	TC4053BF	Q 204	260P807010	CHIP TRANSISTOR	DTC124K
IC3005	263P653010	IC	TC4053BF	Q 206	260P562040	TRANSISTOR	2SA952-K
IC3304	272P488010	IC	BA7703K1			(SIGNAL PCB ASSY)	
IC3306	267P014020	IC	DTR (B061-2)	Q 206	260P806010	CHIP TRANSISTOR	DTA124EK
						(HEAD-AMP PCB ASSY)	
IC3700	266P016010	IC	LA7016	Q 207	260P835030	CHIP TRANSISTOR	2SC2413K
IC3701	266P016010	IC	LA7016			(HEAD-AMP PCB ASSY)	
IC3703	263P053020	IC	TC4053BP	Q 207	260P855050	CHIP TRANSISTOR	2SC4081
IC3704	272P237010	IC	LA6324N			(SIGNAL PCB ASSY)	
IC4A0	263P194020	IC	BU2821S	Q 208	260P835030	CHIP TRANSISTOR	2SC2413K
						(HEAD-AMP PCB ASSY)	
IC4A1	272P237010	IC	LA6324N	Q 208	260P859050	CHIP TRANSISTOR	2SA1576-R
IC4A2	272P235010	IC	TA7291S			(SIGNAL PCB ASSY)	
IC4A3	263P066020	IC	TC4066BP	Q 209	260P835030	CHIP TRANSISTOR	2SC2413K
IC4A4	263P192010	IC	M50927-222SP	Q 210	260P835030	CHIP TRANSISTOR	2SC2413K
IC4A5	263P066020	IC	TC4066BP				
IC4A6	266P154010	IC	μ PC393C	Q 211	260P835030	CHIP TRANSISTOR	2SC2413K
				Q 213	260P855050	CHIP TRANSISTOR	2SC4081

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 214	260P855050	CHIP TRANSISTOR	2SC4081	Q 261	260P872020	CHIP TRANSISTOR	DTC124EU
Q 215	260P855050	CHIP TRANSISTOR	2SC4081	Q 262	260P855050	CHIP TRANSISTOR	2SC4081
Q 220	260P872020	CHIP TRANSISTOR	DTC124EU	Q 264	260P855050	CHIP TRANSISTOR	2SC4081
				Q 265	260P855050	CHIP TRANSISTOR	2SC4081
Q 2A0	260P859050	CHIP TRANSISTOR	2SA1576-R	Q 266	260P855050	CHIP TRANSISTOR	2SC4081
Q 2A1	260P855050	CHIP TRANSISTOR	2SC4081	Q 267	260P855050	CHIP TRANSISTOR	2SC4081
Q 2A2	260P872020	CHIP TRANSISTOR	DTC124EU	Q 268	260P844010	CHIP TRANSISTOR	FMW1
Q 2A3	260P859050	CHIP TRANSISTOR	2SA1576-R	Q 269	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2A4	260P859050	CHIP TRANSISTOR	2SA1576-R	Q 2H0	260P844010	CHIP TRANSISTOR	FMW1
Q 2A5	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2H1	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2A6	260P859050	CHIP TRANSISTOR	2SA1576-R	Q 2H2	260P855050	CHIP TRANSISTOR	2SC4081
Q 2A7	260P859050	CHIP TRANSISTOR	2SA1576-R	Q 2H3	260P855050	CHIP TRANSISTOR	2SC4081
Q 2A8	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2H5	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2A9	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2H8	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 2B1	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2J0	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2B2	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2J1	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2B3	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2J2	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2B4	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2J3	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2B5	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2J4	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 2B6	260P871020	CHIP TRANSISTOR	DTA124EU	Q 2J5	260P871020	CHIP TRANSISTOR	DTA124EU
Q 2B8	260P855050	CHIP TRANSISTOR	2SC4081	Q 2J6	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2C0	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2J7	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2C1	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2J8	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2C3	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2J9	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2C4	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2K0	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2C5	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2K3	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2C9	260P859050	CHIP TRANSISTOR	2SA1576-R	Q 2K4	260P562040	TRANSISTOR	2SA952-K
Q 2D0	260P855050	CHIP TRANSISTOR	2SC4081	Q 2L0	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2D1	260P855050	CHIP TRANSISTOR	2SC4081	Q 2M0	260P872020	CHIP TRANSISTOR	DTC124EU
Q 2D2	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2001	260P855050	CHIP TRANSISTOR	2SC4081
Q 2D3	260P872020	CHIP TRANSISTOR	DTC124EU	Q 2002	260P855050	CHIP TRANSISTOR	2SC4081
Q 2D5	260P855050	CHIP TRANSISTOR	2SC4081	Q 2003	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 2D6	260P855050	CHIP TRANSISTOR	2SC4081	Q 2004	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 2D7	260P859050	CHIP TRANSISTOR	2SA1576-R	Q 301	260P255040	TRANSISTOR (HEAD-AMP PCB ASSY)	2SA950-Y
Q 2D8	260P855050	CHIP TRANSISTOR	2SC4081	Q 301	260P818030	CHIP TRANSISTOR (AUDIO PCB ASSY)	2SC2412K
Q 2E0	260P872020	CHIP TRANSISTOR	DTC124EU	Q 302	260P416030	TRANSISTOR (HEAD-AMP PCB ASSY)	2SC2274-F
Q 2E1	260P872020	CHIP TRANSISTOR	DTC124EU	Q 302	260P818030	CHIP TRANSISTOR (AUDIO PCB ASSY)	2SC2412K
Q 2E2	260P872020	CHIP TRANSISTOR	DTC124EU	Q 303	260P807010	CHIP TRANSISTOR (AUDIO PCB ASSY)	DTC124K
Q 2E3	260P872020	CHIP TRANSISTOR	DTC124EU	Q 303	260P835030	CHIP TRANSISTOR (HEAD-AMP PCB ASSY)	2SC2413K
Q 2E4	260P872020	CHIP TRANSISTOR	DTC124EU	Q 304	260P807010	CHIP TRANSISTOR	DTC124K
Q 2E5	260P562040	TRANSISTOR	2SA952-K	Q 305	260P806010	CHIP TRANSISTOR (AUDIO PCB ASSY)	DTA124EK
Q 2E6	260P855050	CHIP TRANSISTOR	2SC4081	Q 305	260P807010	CHIP TRANSISTOR (HEAD-AMP PCB ASSY)	DTC124K
Q 2E7	260P855050	CHIP TRANSISTOR	2SC4081	Q 306	260P562040	TRANSISTOR (AUDIO PCB ASSY)	2SA952-K
Q 2E8	260P871020	CHIP TRANSISTOR	DTA124EU	Q 306	260P835030	CHIP TRANSISTOR (HEAD-AMP PCB ASSY)	2SC2413K
Q 2E9	260P872020	CHIP TRANSISTOR	DTC124EU	Q 307	260P807010	CHIP TRANSISTOR (AUDIO PCB ASSY)	DTC124K
Q 2F1	260P855050	CHIP TRANSISTOR	2SC4081				
Q 2F2	260P844010	CHIP TRANSISTOR	FMW1				
Q 2F3	260P855050	CHIP TRANSISTOR	2SC4081				
Q 2F4	260P872020	CHIP TRANSISTOR	DTC124EU				
Q 2F5	260P872020	CHIP TRANSISTOR	DTC124EU				
Q 2F6	260P855050	CHIP TRANSISTOR	2SC4081				
Q 2F7	260P872020	CHIP TRANSISTOR	DTC124EU				
Q 2F8	260P872020	CHIP TRANSISTOR	DTC124EU				
Q 2F9	260P872020	CHIP TRANSISTOR	DTC124EU				
Q 2G0	260P844010	CHIP TRANSISTOR	FMW1				

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION		SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 307	260P835030	CHIP TRANSISTOR (HEAD-AMP PCB ASSY)	2SC2413K		Q 3701	260P559030	TRANSISTOR	2SC1740S-S
Q 308	260P387030	TRANSISTOR (HEAD-AMP PCB ASSY)	2SC2236-Y		Q 3702	260P632010	TRANSISTOR	DTC124ES
Q 308	260P807010	CHIP TRANSISTOR (AUDIO PCB ASSY)	DTC124K		Q 3703	260P559030	TRANSISTOR	2SC1740S-S
Q 309	260P807010	CHIP TRANSISTOR	DTC124K		Q 3704	260P632010	TRANSISTOR	DTC124ES
Q 310	260P807010	CHIP TRANSISTOR	DTC124K		Q 3705	260P559030	TRANSISTOR	2SC1740S-S
Q 311	260P807010	CHIP TRANSISTOR	DTC124K		Q 3706	260P559030	TRANSISTOR	2SC1740S-S
Q 312	260P806010	CHIP TRANSISTOR	DTA124EK		Q 3710	260P559030	TRANSISTOR	2SC1740S-S
Q 320	260P632010	TRANSISTOR	2SC2412ES		Q 4A0	260P586050	TRANSISTOR	2SB892-T, U
Q 321	260P872020	CHIP TRANSISTOR	DTC124EU	[B]	Q 4A1	260P560040	TRANSISTOR	2SA933S-S
Q 321	260P632010	TRANSISTOR	DTC124ES	[E]	Q 4A2	260P560040	TRANSISTOR	2SA933S-S
Q 3A0	260P416030	TRANSISTOR	2SC2274-F		Q 4A3	260P560040	TRANSISTOR	2SA933S-S
Q 3A1	260P818030	CHIP TRANSISTOR	2SC2412K		Q 4A4	260P632010	TRANSISTOR	DTC124ES
Q 3A2	260P818030	CHIP TRANSISTOR	2SC2412K		Q 4A5	260P603010	TRANSISTOR	DTA124ES/UN4112
Q 3A3	260P818030	CHIP TRANSISTOR	2SC2412K		Q 4A6	260P559030	TRANSISTOR	2SC1740S-S
Q 3A4	260P836020	CHIP TRANSISTOR	2SC3326-B		Q 4A7	260P603010	TRANSISTOR	DTA124ES/UN4112
Q 3A5	260P818030	CHIP TRANSISTOR	2SC2412K		Q 4A8	260P632010	TRANSISTOR	DTC124ES
Q 3A6	260P807010	CHIP TRANSISTOR	DTC124K		Q 4A9	260P559030	TRANSISTOR	2SC1740S-S
Q 3A7	260P807010	CHIP TRANSISTOR	DTC124K		Q 4B0	260P459010	TRANSISTOR	2SK381-A
Q 3A8	260P836020	CHIP TRANSISTOR	2SC3326-B		Q 4B1	260P560040	TRANSISTOR	2SA933S-S
Q 3A9	260P836020	CHIP TRANSISTOR	2SC3326-B		Q 4B2	260P559050	TRANSISTOR	2SC1740S-E
Q 3B0	260P836020	CHIP TRANSISTOR	2SC3326-B		Q 4B3	260P459010	TRANSISTOR	2SK381-A
Q 3B3	260P807010	CHIP TRANSISTOR	DTC124K		Q 4B4	260P603010	TRANSISTOR	DTA124ES/UN4112
Q 3B4	260P807010	CHIP TRANSISTOR	DTC124K		Q 4B5	260P559030	TRANSISTOR	2SC1740S-S
Q 3B9	260P806010	CHIP TRANSISTOR	DTA124EK		Q 4B6	260P603010	TRANSISTOR	DTA124ES/UN4112
Q 3C0	260P806010	CHIP TRANSISTOR	DTA124EK		Q 4B7	260P632010	TRANSISTOR	DTC124ES
Q 3C1	260P807010	CHIP TRANSISTOR	DTC124K		Q 4B8	260P654020	TRANSISTOR	2SC2058S-P
Q 3C2	260P818030	CHIP TRANSISTOR	2SC2412K		Q 571	268P014020	PHOTO TRANSISTOR	PN205L-(NC)
Q 3X0	260P807010	CHIP TRANSISTOR	DTC124K		Q 572	268P014020	PHOTO TRANSISTOR	PN205L-(NC)
Q 3X1	260P807010	CHIP TRANSISTOR	DTC124K		Q 573	268P044010	PHOTO INTERRUPTER	ON2270-(LZ). MI
Q 3001	260P836020	CHIP TRANSISTOR	2SC3326-B		Q 574	268P044010	PHOTO INTERRUPTER	ON2270-(LZ). MI
Q 3002	260P836020	CHIP TRANSISTOR	2SC3326-B		Q 575	268P045010	PHOTO INTERRUPTER	GP1L52V
Q 3003	260P836020	CHIP TRANSISTOR	2SC3326-B		Q 581	260P455010	TRANSISTOR	DTC124EF
Q 3004	260P836020	CHIP TRANSISTOR	2SC3326-B		Q 582	260P455010	TRANSISTOR	DTC124EF
Q 3005	260P807010	CHIP TRANSISTOR	DTC124K		Q 583	260P455010	TRANSISTOR	DTC124EF
Q 3006	260P807010	CHIP TRANSISTOR	DTC124K		Q 5A0	260P338050	TRANSISTOR	2SC2603-G
Q 3007	260P807010	CHIP TRANSISTOR	DTC124K		Q 5A1	260P632010	TRANSISTOR	DTC124ES
Q 3008	260P807010	CHIP TRANSISTOR	DTC124K		Q 5A2	260P559030	TRANSISTOR	2SC1740S-S
Q 3009	260P807010	CHIP TRANSISTOR	DTC124K		Q 5A3	260P559030	TRANSISTOR	2SC1740S-S
Q 3010	260P817030	CHIP TRANSISTOR	2SA1037K		Q 5A4	260P559030	TRANSISTOR	2SC1740S-S
Q 3011	260P806010	CHIP TRANSISTOR	DTA124EK		Q 5A5	260P632010	TRANSISTOR	DTC124ES
Q 3012	260P807010	CHIP TRANSISTOR	DTC124K		Q 5A6	260P632010	TRANSISTOR	DTC124ES
Q 3013	260P807010	CHIP TRANSISTOR	DTC124K		Q 5A7	260P559030	TRANSISTOR	2SC1740S-S
Q 3014	260P806010	CHIP TRANSISTOR	DTA124EK		Q 5A8	260P560040	TRANSISTOR	2SA933S-S
Q 304*	260P807010	CHIP TRANSISTOR	DTC124K	[E]	Q 5A9	260P603010	TRANSISTOR	DTA124ES/UN4112
Q 3307	260P807010	CHIP TRANSISTOR	DTC124K		Q 5B0	260P603010	TRANSISTOR	DTA124ES/UN4112
Q 3308	260P818030	CHIP TRANSISTOR	2SC2412K		Q 5B1	260P632010	TRANSISTOR	DTC124ES
Q 3310	260P817030	CHIP TRANSISTOR	2SA1037K		Q 5B2	260P603010	TRANSISTOR	DTA124ES/UN4112
Q 3311	260P818030	CHIP TRANSISTOR	2SC2412K		Q 5B3	260P559030	TRANSISTOR	2SC1740S-S
Q 3312	260P818030	CHIP TRANSISTOR	2SC2412K		Q 5B4	260P559030	TRANSISTOR	2SC1740S-S
Q 3313	260P818030	CHIP TRANSISTOR	2SC2412K		Q 5B5	260P632010	TRANSISTOR	DTC124ES
Q 3314	260P807010	CHIP TRANSISTOR	DTC124K		Q 5B6	260P632010	TRANSISTOR	DTC124ES
Q 3700	260P559030	TRANSISTOR	2SC1740S-S		Q 5B7	260P559030	TRANSISTOR	2SC1740S-S
					Q 5B8	260P603010	TRANSISTOR	DTA124ES/UN4112
					Q 5B9	260P559030	TRANSISTOR	2SC1740S-S

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 5C0	260P338050	TRANSISTOR	2SC2603-G	Q 6T0	260P844010	CHIP TRANSISTOR	FMW1
Q 5C1	260P560040	TRANSISTOR	2SA933S-S	Q 6T1	260P872020	CHIP TRANSISTOR	DTC124EU
Q 5C2	260P603010	TRANSISTOR	DTA124ES/UN4112	Q 6Z0	260P855050	CHIP TRANSISTOR	2SC4081
Q 5C3	260P632010	TRANSISTOR	DTC124ES	Q 6Z1	260P855050	CHIP TRANSISTOR	2SC4081
Q 5C5	260P632010	TRANSISTOR	DTC124ES	Q 6Z2	260P855050	CHIP TRANSISTOR	2SC4081
Q 5C6	260P560040	TRANSISTOR	2SA933S-S	Q 6Z3	260P844010	CHIP TRANSISTOR	FMW1
Q 5C7	260P562040	TRANSISTOR	2SA952-K	Q 6Z4	260P872020	CHIP TRANSISTOR	DTC124EU
Q 5C8	260P603010	TRANSISTOR	DTA124ES/UN4112	Q 6000	260P855050	CHIP TRANSISTOR	2SC4081
Q 5C9	260P560040	TRANSISTOR	2SA933S-S	Q 6001	260P855050	CHIP TRANSISTOR	2SC4081
Q 5D0	260P603010	TRANSISTOR	DTA124ES/UN4112	Q 6002	260P855050	CHIP TRANSISTOR	2SC4081
Q 5D1	260P632010	TRANSISTOR	DTC124ES	Q 6004	260P872020	CHIP TRANSISTOR	DTC124EU
Q 5D2	260P632010	TRANSISTOR	DTC124ES	Q 6005	260P872020	CHIP TRANSISTOR	DTC124EU
Q 5D3	260P632010	TRANSISTOR	DTC124ES	Q 6006	260P872020	CHIP TRANSISTOR	DTC124EU
Q 5D4	260P632010	TRANSISTOR	DTC124ES	Q 6007	260P855050	CHIP TRANSISTOR	2SC4081
Q 5D5	260P632010	TRANSISTOR	DTC124ES	Q 6008	260P855050	CHIP TRANSISTOR	2SC4081
Q 5D6	260P603010	TRANSISTOR	DTA124ES/UN4112	Q 6009	260P855050	CHIP TRANSISTOR	2SC4081
Q 5D7	260P559030	TRANSISTOR	2SC1740S-S	Q 6011	260P872020	CHIP TRANSISTOR	DTC124EU
Q 5D8	260P559030	TRANSISTOR	2SC1740S-S	Q 6012	260P844010	CHIP TRANSISTOR	FMW1
Q 5D9	260P632010	TRANSISTOR	DTC124ES	Q 6013	260P855050	CHIP TRANSISTOR	2SC4081
Q 5E0	260P560040	TRANSISTOR	2SA933S-S	Q 6015	260P872020	CHIP TRANSISTOR	DTC124EU
Q 5E1	260P559030	TRANSISTOR	2SC1740S-S	Q 6017	260P855050	CHIP TRANSISTOR	2SC4081
Q 5E2	260P632010	TRANSISTOR	DTC124ES	Q 6020	260P855050	CHIP TRANSISTOR	2SC4081
Q 5E3	260P559030	TRANSISTOR	2SC1740S-S	Q 6021	260P855050	CHIP TRANSISTOR	2SC4081
Q 5E4	260P603010	TRANSISTOR	DTA124ES/UN4112	Q 6034	260P872020	CHIP TRANSISTOR	DTC124EU
Q 5E5	260P560040	TRANSISTOR	2SA933S-S	Q 6035	260P871020	CHIP TRANSISTOR	DTA124EU
Q 5E6	260P560040	TRANSISTOR	2SA933S-S	Q 6036	260P632010	TRANSISTOR	DTC124ES
Q 5E7	260P559030	TRANSISTOR	2SC1740S-S	Q 700	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 5E8	260P559030	TRANSISTOR	2SC1740S-S	Q 701	260P855050	CHIP TRANSISTOR	2SC4081
Q 5E9	260P603010	TRANSISTOR	DTA124ES/UN4112	Q 702	260P855050	CHIP TRANSISTOR	2SC4081
Q 5F0	260P632010	TRANSISTOR	DTC124ES	Q 703	260P855050	CHIP TRANSISTOR	2SC4081
Q 6A0	260P872020	CHIP TRANSISTOR	DTC124EU	Q 704	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 6A1	260P855050	CHIP TRANSISTOR	2SC4081	Q 705	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 6C0	260P872020	CHIP TRANSISTOR	DTC124EU	Q 706	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 6C2	260P872020	CHIP TRANSISTOR	DTC124EU	Q 707	260P855050	CHIP TRANSISTOR	2SC4081
Q 6C3	260P872020	CHIP TRANSISTOR	DTC124EU	Q 708	260P855050	CHIP TRANSISTOR	2SC4081
Q 6C4	260P844010	CHIP TRANSISTOR	FMW1	Q 709	260P855050	CHIP TRANSISTOR	2SC4081
Q 6C6	260P871020	CHIP TRANSISTOR	DTA124EU	Q 710	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 6D1	260P855050	CHIP TRANSISTOR	2SC4081	Q 711	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 6D2	260P855050	CHIP TRANSISTOR	2SC4081	Q 712	260P855050	CHIP TRANSISTOR	2SC4081
Q 6D3	260P844010	CHIP TRANSISTOR	FMW1	Q 713	260P855050	CHIP TRANSISTOR	2SC4081
Q 6D5	260P872020	CHIP TRANSISTOR	DTC124EU	Q 714	260P855050	CHIP TRANSISTOR	2SC4081
Q 6D6	260P855050	CHIP TRANSISTOR	2SC4081	Q 715	260P872020	CHIP TRANSISTOR	DTC124EU
Q 6D7	260P855050	CHIP TRANSISTOR	2SC4081	Q 716	260P855050	CHIP TRANSISTOR	2SC4081
Q 6D8	260P855050	CHIP TRANSISTOR	2SC4081	Q 717	260P855050	CHIP TRANSISTOR	2SC4081
Q 6D9	260P855050	CHIP TRANSISTOR	2SC4081	Q 718	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 6E0	260P855050	CHIP TRANSISTOR	2SC4081	Q 803	260P559030	TRANSISTOR	2SC1740S-S
Q 6E1	260P872020	CHIP TRANSISTOR	DTC124EU	Q 804	260P255040	TRANSISTOR	2SA950-Y
Q 6E3	260P872020	CHIP TRANSISTOR	DTC124EU	Q 805	260P255040	TRANSISTOR	2SA950-Y
Q 6E4	260P855050	CHIP TRANSISTOR	2SC4081	Q 8A0	260P560040	TRANSISTOR	2SA933S-S
Q 6E5	260P855050	CHIP TRANSISTOR	2SC4081	Q 8A1	260P632010	TRANSISTOR	DTC124ES
Q 6F0	260P872020	CHIP TRANSISTOR	DTC124EU	Q 8A2	260P560040	TRANSISTOR	2SA933S-S
Q 6S0	260P804020	CHIP TRANSISTOR	2SC3052-F	Q 8A3	260P632010	TRANSISTOR	DTC124ES
Q 6S1	260P840020	CHIP TRANSISTOR	2SA1530-R	Q 901	260P628060	TRANSISTOR	2SA1619A-Q, R, S
Q 6S2	260P804020	CHIP TRANSISTOR	2SC3052-F	Q 902	260P560040	TRANSISTOR	2SA933S-S

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 903	260P630010	TRANSISTOR	2SD2012	D 3713	264P515010	DIODE	MA165
Q 904	260P630010	TRANSISTOR	2SD2012	D 4A0	264P500020	DIODE	EM01Z
Q 905	260P438010	TRANSISTOR	2SD1273-Q	D 4A1	264P515010	DIODE	MA165
Q 906	260P630010	TRANSISTOR	2SD2012	D 4A2	264P515010	DIODE	MA165
Q 907	260P632010	TRANSISTOR	DTC124ES	D 4A3	264P515010	DIODE	MA165
Q 971	260P438010	TRANSISTOR	2SD1273-Q	D 4A4	264P515010	DIODE	MA165
DIODES				D 4A5	264P515010	DIODE	MA165
D 201	264P822010	CHIP DIODE	HSM2838	D 4A6	264P515010	DIODE	MA165
D 203	264P828010	CHIP DIODE	DAN202U	D 4A7	264P515010	DIODE	MA165
D 204	264P828010	CHIP DIODE	DAN202U	D 4A8	264P515010	DIODE	MA165
D 2A0	264P828010	CHIP DIODE	DAN202U	D 4A9	264P515010	DIODE	MA165
D 2A2	264P814030	CHIP DIODE	MA142WA	D 570	264P307020	LIGHT EMITTING DIODE	GL-451
D 2A5	264P814030	CHIP DIODE	MA142WA	D 572	264P515010	DIODE	MA165
D 2A7	264P814030	CHIP DIODE	MA142WA	D 5A0	264P515010	DIODE	MA165
D 2B0	264P814030	CHIP DIODE	MA142WA	D 5A1	264P515010	DIODE	MA165
D 2B2	264P123030	DIODE	1SS99	D 5A2	264P515010	DIODE	MA165
D 2B5	264P828010	CHIP DIODE	DAN202U	D 5A3	264P515010	DIODE	MA165
D 2B6	264P814030	CHIP DIODE	MA142WA	D 5A4	264P515010	DIODE	MA165
D 2B8	264P828010	CHIP DIODE	DAN202U	D 5A5	264P515010	DIODE	MA165
D 2C1	264P828010	CHIP DIODE	DAN202U	D 5A6	264P515010	DIODE	MA165
D 2C2	264P828010	CHIP DIODE	DAN202U	D 5A7	264P515010	DIODE	MA165
D 2C3	264P515010	DIODE	MA165	D 5A8	264P515010	DIODE	MA165
D 301	264P341020	DIODE	HZ11A1	D 5A9	264P515010	DIODE	MA165
D 302	264P515010	DIODE	MA165	D 5B0	264P515010	DIODE	MA165
D 3A0	264P515010	DIODE	MA165	D 5B1	264P515010	DIODE	MA165
D 3A3	264P515010	DIODE	MA165	D 5B2	264P515010	DIODE	MA165
D 3A4	264P515010	DIODE	MA165	D 5B3	264P515010	DIODE	MA165
D 3A5	264P515010	DIODE	MA165	D 5B4	264P515010	DIODE	MA165
D 3A6	264P515010	DIODE	MA165	D 5B5	264P515010	DIODE	MA165
D 3A7	264P123030	DIODE	1SS99	D 5B6	264P515010	DIODE	MA165
D 3A8	264P123030	DIODE	1SS99	D 5B7	264P515010	DIODE	MA165
D 3A9	264P460010	DIODE	EQA02-05AB/RD4. 7EB2	D 5B8	264P515010	DIODE	MA165
D 3B2	264P515010	DIODE	MA165	D 5B9	264P515010	DIODE	MA165
D 3B3	264P515010	DIODE	MA165	D 5C0	264P515010	DIODE	MA165
D 3B4	264P515010	DIODE	MA165	D 5C1	264P515010	DIODE	MA165
D 3B5	264P515010	DIODE	MA165	D 5C2	264P515010	DIODE	MA165
D 3B6	264P515010	DIODE	MA165	D 5C3	264P515010	DIODE	MA165
D 3B7	264P515010	DIODE	MA165	D 5C4	264P515010	DIODE	MA165
D 3B8	264P515010	DIODE	MA165	D 5C5	264P515010	DIODE	MA165
D 3B9	264P123030	DIODE	1SS99	D 5C6	264P515010	DIODE	MA165
D 3C0	264P123030	DIODE	1SS99	D 5C8	264P342070	DIODE	HZ4C2
D 3C1	264P460010	DIODE	EQA02-05AB/RD4. 7EB2	D 5C9	264P515010	DIODE	MA165
D 3C2	264P515010	DIODE	MA165	D 5D0	264P515010	DIODE	MA165
D 3C3	264P515010	DIODE	MA165	D 5D1	264P515010	DIODE	MA165
D 3C4	264P515010	DIODE	MA165	D 5D2	264P515010	DIODE	MA165
D 3700	264P515010	DIODE	MA165	D 5D3	264P515010	DIODE	MA165
D 3701	264P515010	DIODE	MA165	D 5D4	264P515010	DIODE	MA165
D 3702	264P515010	DIODE	MA165	D 5D5	264P515010	DIODE	MA165
D 3703	264P515010	DIODE	MA165	D 5D6	264P515010	DIODE	MA165
D 3710	264P515010	DIODE	MA165	D 5D7	264P515010	DIODE	MA165
D 3711	264P515010	DIODE	MA165	D 5D8	264P515010	DIODE	MA165
D 3712	264P515010	DIODE	MA165	D 5D9	264P045040	DIODE	1S2471
				D 5E0	264P452030	DIODE	HZ5C3
				D 5E1	264P515010	DIODE	MA165
				D 5E2	264P515010	DIODE	MA165

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
D 5F0	264P515010	DIODE	MA165	D 8A1	264P045040	DIODE	1S2471
D 6A0	264P828010	CHIP DIODE	DAN202U	D 901	264P101050	DIODE	RM 1B
D 6C0	264P828010	CHIP DIODE	DAN202U	D 902	264P101050	DIODE	RM 1B
D 6C1	264P828010	CHIP DIODE	DAN202U	D 903	264P101050	DIODE	RM 1B
D 6C2	264P814030	CHIP DIODE	MA142WA	D 904	264P101050	DIODE	RM 1B
D 6C3	264P123030	DIODE	1SS99	D 905	264P430030	DIODE	DSA3A1 15M FORMING
D 6C6	264P828010	CHIP DIODE	DAN202U	D 906	264P430030	DIODE	DSA3A1 15M FORMING
D 6C7	264P828010	CHIP DIODE	DAN202U	D 907	264P430030	DIODE	DSA3A1 15M FORMING
D 6C8	264P828010	CHIP DIODE	DAN202U	D 908	264P430030	DIODE	DSA3A1 15M FORMING
D 6T0	264P828010	CHIP DIODE	DAN202U	D 909	264P430030	DIODE	DSA3A1 15M FORMING
D 6000	264P814030	CHIP DIODE	MA142WA	D 910	264P430030	DIODE	DSA3A1 15M FORMING
D 6001	264P828010	CHIP DIODE	DAN202U	D 911	264P430030	DIODE	DSA3A1 15M FORMING
D 6002	264P828010	CHIP DIODE	DAN202U	D 912	264P430030	DIODE	DSA3A1 15M FORMING
D 6003	264P828010	CHIP DIODE	DAN202U	D 913	264P500020	DIODE	EM01Z
D 6005	264P828010	CHIP DIODE	DAN202U	D 914	264P500020	DIODE	EM01Z
D 700	264P830020	CHIP DIODE	DA204U	D 915	264P104040	DIODE	HZ30-2
D 701	264P830020	CHIP DIODE	DA204U	D 916	264P515010	DIODE	MA165
D 7A1	264P045040	DIODE	1S2471	D 917	264P342040	DIODE	HZ12A3
D 7A2	264P045040	DIODE	1S2471	FILTERS			
D 7A3	264P045040	DIODE	1S2471	BF3700	409P356010	BAND PASS FILTER	
D 7A4	264P045040	DIODE	1S2471	BF3701	409P371010	BAND PASS FILTER	
D 7A5	264P045040	DIODE	1S2471	BF6000	409P649010	BAND PASS FILTER	
D 801	264P459030	DIODE	RD4. 7EB1	BPF201	409P455010	BAND PASS FILTER	
D 802	264P313040	DIODE	SLR-34MC3	BPF2A0	409P455010	BAND PASS FILTER	
D 803	264P045040	DIODE	1S2471	BPF2A1	409P611010	BAND PASS FILTER	
D 804	264P045040	DIODE	1S2471	BPF6C0	409P540010	BAND PASS FILTER	
D 805	264P045040	DIODE	1S2471	BPF6C1	409P460010	BAND PASS FILTER	
D 807	264P045040	DIODE	1S2471	BPF700	409P623010	BAND PASS FILTER	
D 808	264P193080	DIODE	MZ309B2/HZ9B24	BPF701	409P623010	BAND PASS FILTER	
D 810	264P045040	DIODE	1S2471	BPF702	409P656010	BAND PASS FILTER	
D 811	264P045040	DIODE	1S2471	CF4A0	299P116010	CERAMIC RESONATOR	KBR-4. 0KES
D 812	264P045040	DIODE	1S2471	CF5A0	299P118020	CERAMIC RESONATOR	CST8. 00MT
D 813	264P045040	DIODE	1S2471	CF5A1	299P116010	CERAMIC RESONATOR	KBR-4. 0KES
D 814	264P045040	DIODE	1S2471	CF6C0	296P098010	CERAMIC FILTER	
D 815	264P045040	DIODE	1S2471	DL6C1	337P160010	COMB FILTER	EFD-VR645A45H
D 816	264P045040	DIODE	1S2471	LF3A0	409P185010	LOW PASS FILTER	
D 817	264P045040	DIODE	1S2471	LF3A1	409P185010	LOW PASS FILTER	
D 820	264P045040	DIODE	1S2471	LF6000	409P609010	LOW PASS FILTER	
D 821	264P045040	DIODE	1S2471	LPF201	409P444010	LOW PASS FILTER	
D 822	264P045040	DIODE	1S2471	LPF2A0	409P608010	LOW PASS FILTER	
D 823	264P045040	DIODE	1S2471	LPF2A1	409P444010	LOW PASS FILTER	
D 847	264P045040	DIODE	1S2471	LPF2A2	409P466020	LOW PASS FILTER	
D 848	264P045040	DIODE	1S2471	LPF2A3	409P372010	LOW PASS FILTER	
D 849	264P045040	DIODE	1S2471	LPF6C0	409P612010	LOW PASS FILTER	
D 850	264P045040	DIODE	1S2471	LPF6C1	409P386010	BAND PASS FILTER	SBP-4245
D 851	264P045040	DIODE	1S2471	LPF700	409P654010	LOW PASS FILTER	
D 852	264P313040	DIODE	SLR-34MC3	LPF701	409P608010	LOW PASS FILTER	
D 853	264P313040	DIODE	SLR-34MC3	LPF702	409P608010	LOW PASS FILTER	
D 854	264P313040	DIODE	SLR-34MC3	DELAY LINES			
D 855	264P045040	DIODE	1S2471	DF2A0	409P629010	DELAY EQUALIZER	
D 856	264P045040	DIODE	1S2471				
D 857	264P313040	DIODE	SLR-34MC3				
D 860	264P515010	DIODE	MA165				
D 861	264P515010	DIODE	MA165				

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
DF2A1	409P610010	DELAY EQUALIZER		L 2001	325C167000	PEAKING COIL	39 μ H-J
DF700	409P431010	DELAY EQUALIZER		L 2002	325C167000	PEAKING COIL	39 μ H-J
DL6C0	337P130010	DELAY LINE		L 2003	325C242050	CHIP COIL	100 μ H-K
DL6C2	337P164010	DELAY LINE		L 2004	325C242050	CHIP COIL	100 μ H-K
DL6C3	337P164010	DELAY LINE		L 2005	325C166090	PEAKING COIL	33 μ H-J
DL700	337P164010	DELAY LINE		L 2006	325C166060	PEAKING COIL	18 μ H-J
COILS				L 301	325C108030	PEAKING COIL (SIGNAL PCB ASSY)	470 μ H-J
L 201	325C242050	CHIP COIL (SIGNAL PCB ASSY)	100 μ H-K	L 301	325C112070	PEAKING COIL (HEAD-AMP PCB ASSY)	150 μ H-K
L 201	325C262050	PEAKING COIL (HEAD-AMP PCB ASSY)	100 μ H-K	L 302	325C162010	PEAKING COIL	47 μ H-K
L 202	325C262050	PEAKING COIL	100 μ H-K	L 303	325C262050	PEAKING COIL	100 μ H-K
L 203	325C262050	PEAKING COIL	100 μ H-K	L 304	325C262050	PEAKING COIL	100 μ H-K
L 204	325C262050	PEAKING COIL	100 μ H-K	L 3A2	321C011040	RF COIL	6800 μ H-J
L 205	325C242050	CHIP COIL	100 μ H-K	L 3A3	325C107080	PEAKING COIL	180 μ H-J
L 208	325C242050	CHIP COIL	100 μ H-K	L 3A4	321C010040	RF COIL	1000 μ H-J
L 209	325C242050	CHIP COIL	100 μ H-K	L 3A5	321C011040	RF COIL	6800 μ H-J
L 210	325C242050	CHIP COIL	100 μ H-K	L 3A6	321C010040	RF COIL	1000 μ H-J
L 211	325C242050	CHIP COIL	100 μ H-K	L 3301	325C107010	PEAKING COIL	47 μ H-J
L 212	325C242050	CHIP COIL	100 μ H-K	L 3302	325C262050	PEAKING COIL	100 μ H-K
L 214	325C242050	CHIP COIL	100 μ H-K	L 3303	325C262050	PEAKING COIL	100 μ H-K
L 2A0	325C242050	CHIP COIL	100 μ H-K	L 3304	325C262050	PEAKING COIL	100 μ H-K
L 2A1	325C242050	CHIP COIL	100 μ H-K	L 3310	325C167030	PEAKING COIL	68 μ H-J
L 2A2	325C242050	CHIP COIL	100 μ H-K	L 3311	325C262050	PEAKING COIL	100 μ H-K
L 2A3	325C262050	PEAKING COIL	100 μ H-K	L 3700	325C267050	PEAKING COIL	100 μ H-J
L 2A4	325C107010	PEAKING COIL	47 μ H-J	L 3701	325C108010	PEAKING COIL	330 μ H-J
L 2A5	325C166050	PEAKING COIL	15 μ H-J	L 3702	325C108010	PEAKING COIL	330 μ H-J
L 2A6	325C166020	PEAKING COIL	8.2 μ H-J	L 4A0	325C161030	PEAKING COIL	10 μ H-K
L 2A8	325C166080	PEAKING COIL	27 μ H-J	L 4A1	325C167050	PEAKING COIL	100 μ H-J
L 2A9	325C242050	CHIP COIL	100 μ H-K	L 4A2	325C167050	PEAKING COIL	100 μ H-J
L 2B0	325C163010	PEAKING COIL	330 μ H-K	L 570	299P124010	LATCH MAGNET	
L 2B2	325C166070	PEAKING COIL	22 μ H-J	L 5A0	325C124050	PEAKING COIL	0.33 μ H-M
L 2B3	325C166050	PEAKING COIL	15 μ H-J	L 5A1	325C124080	PEAKING COIL	0.56 μ H-M
L 2B4	325C167070	PEAKING COIL	150 μ H-J	L 5A2	325C124050	PEAKING COIL	0.33 μ H-M
L 2B6	325C167070	PEAKING COIL	150 μ H-J	L 5A3	325C167050	PEAKING COIL	100 μ H-J
L 2B7	325C167090	PEAKING COIL	220 μ H-J	L 5A4	325C166040	PEAKING COIL	12 μ H-J
L 2B8	325C168000	PEAKING COIL	270 μ H-J	L 5A5	325C165090	PEAKING COIL	4.7 μ H-J
L 2B9	325C167050	PEAKING COIL	100 μ H-J	L 5A6	325C166050	PEAKING COIL	15 μ H-J
L 2C0	325C167040	PEAKING COIL	82 μ H-J	L 6A0	325C242050	CHIP COIL	100 μ H-K
L 2C1	325C242050	CHIP COIL	100 μ H-K	L 6A1	325C242050	CHIP COIL	100 μ H-K
L 2C2	325C162090	PEAKING COIL	220 μ H-K	L 6B7	325C242050	CHIP COIL	100 μ H-K
L 2C3	325C166040	PEAKING COIL	12 μ H-J	L 6C0	325C166020	PEAKING COIL	8.2 μ H-J
L 2C4	325C166030	PEAKING COIL	10 μ H-J	L 6C2	325C242050	CHIP COIL	100 μ H-K
L 2C5	325C166030	PEAKING COIL	10 μ H-J	L 6C3	325C262050	PEAKING COIL	100 μ H-K
L 2C6	325C166090	PEAKING COIL	33 μ H-J	L 6C4	325C167010	PEAKING COIL	47 μ H-J
L 2C7	325C242050	CHIP COIL	100 μ H-K	L 6C5	321C015050	RF COIL	8200 μ H-J
L 2C8	325C242050	CHIP COIL	100 μ H-K	L 6C6	325C166090	PEAKING COIL	33 μ H-J
L 2C9	325C242050	CHIP COIL	100 μ H-K	L 6C7	325C166050	PEAKING COIL	15 μ H-J
L 2D0	325C242050	CHIP COIL	100 μ H-K	L 6C8	325C166050	PEAKING COIL	15 μ H-J
L 2D1	325C242050	CHIP COIL	100 μ H-K	L 6C9	325C166050	PEAKING COIL	15 μ H-J
L 2E0	325C161090	PEAKING COIL	33 μ H-K	L 6D0	325C166050	PEAKING COIL	15 μ H-J
L 2E1	325C163000	PEAKING COIL	270 μ H-K	L 6D1	325C165090	PEAKING COIL	4.7 μ H-J
L 2000	325C242050	CHIP COIL	100 μ H-K	L 6D2	325C166050	PEAKING COIL	15 μ H-J
				L 6D3	325C166050	PEAKING COIL	15 μ H-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
L 6D4	325C165090	PEAKING COIL	4.7 μ H-J	VR2B4	127C091000	VR-SEMIFIXED	1/5W B30k Ω -M
L 6D5	325C242050	CHIP COIL	100 μ H-K	VR2B5	127C090040	VR-SEMIFIXED	1/5W B1k Ω -M
L 6D6	325C262050	PEAKING COIL	100 μ H-K	VR2B6	127C080050	VR-SEMIFIXED	1/5W B2k Ω -M
L 6D9	325C242050	CHIP COIL	100 μ H-K	VR2B7	127C080070	VR-SEMIFIXED	1/5W B5k Ω -M
L 6000	325C242050	CHIP COIL	100 μ H-K	VR2B8	127C080070	VR-SEMIFIXED	1/5W B5k Ω -M
L 6001	325C242050	CHIP COIL	100 μ H-K	VR2B9	127C080050	VR-SEMIFIXED	1/5W B2k Ω -M
L 6002	325C165090	PEAKING COIL	4.7 μ H-J	VR2C0	127C081020	VR-SEMIFIXED	1/5W B100k Ω -M
L 6003	325C165090	PEAKING COIL	4.7 μ H-J	VR2D0	127C081000	VR-SEMIFIXED	1/5W B30k Ω -M
L 6004	325C165090	PEAKING COIL	4.7 μ H-J	VR2D1	127C081020	VR-SEMIFIXED	1/5W B100k Ω -M
L 6005	325C165090	PEAKING COIL	4.7 μ H-J	VR2008	127C080050	VR-SEMIFIXED	1/5W B2k Ω -M
L 6006	325C165090	PEAKING COIL	4.7 μ H-J	VR2024	127C081020	VR-SEMIFIXED	1/5W B100k Ω -M
L 6007	325C242050	CHIP COIL	100 μ H-K	VR301	127C180070	VR-SEMIFIXED	1/5W B5k Ω -M
L 700	325C242050	CHIP COIL	100 μ H-K	VR3A0	127C081010	VR-SEMIFIXED	1/5W B50k Ω -M
L 701	325C242050	CHIP COIL	100 μ H-K	VR3A1	127C081010	VR-SEMIFIXED	1/5W B50k Ω -M
L 702	325C242050	CHIP COIL	100 μ H-K	VR3A2	127C080030	VR-SEMIFIXED	1/5W B500 Ω -M
L 703	325C242050	CHIP COIL	100 μ H-K	VR3A3	127C080030	VR-SEMIFIXED	1/5W B500 Ω -M
L 704	325C242050	CHIP COIL	100 μ H-K	VR3A4	127C080070	VR-SEMIFIXED	1/5W B5k Ω -M
L 705	325C242050	CHIP COIL	100 μ H-K	VR3X0	127C080050	VR-SEMIFIXED	1/5W B2k Ω -M
L 706	325C242050	CHIP COIL	100 μ H-K	VR3X1	127C080050	VR-SEMIFIXED	1/5W B2k Ω -M
L 707	325C242050	CHIP COIL	100 μ H-K	VR3X2	127C080050	VR-SEMIFIXED	1/5W B2k Ω -M
L 708	325C242050	CHIP COIL	100 μ H-K	VR3X3	127C080050	VR-SEMIFIXED	1/5W B2k Ω -M
L 709	325C165090	PEAKING COIL	4.7 μ H-J	VR3301	127C090080	VR-SEMIFIXED	1/5W B10k Ω -M
L 710	325C165090	PEAKING COIL	4.7 μ H-J	VR3302	127C090080	VR-SEMIFIXED	1/5W B10k Ω -M
L 711	325C112010	PEAKING COIL	47 μ H-K	VR3303	127C091020	VR-SEMIFIXED	1/5W B100k Ω -M
L 712	325C166050	PEAKING COIL	15 μ H-J	VR3304	127C091020	VR-SEMIFIXED	1/5W B100k Ω -M
L 713	325C166050	PEAKING COIL	15 μ H-J	VR3305	127C080090	VR-SEMIFIXED	1/5W B20k Ω -M
L 714	325C165090	PEAKING COIL	4.7 μ H-J	VR3306	127C080090	VR-SEMIFIXED	1/5W B20k Ω -M
L 715	325C242050	CHIP COIL	100 μ H-K	VR3700	127C081000	VR-SEMIFIXED	1/5W B30k Ω -M
L 716	325C242050	CHIP COIL	100 μ H-K	VR3701	127C081000	VR-SEMIFIXED	1/5W B30k Ω -M
L 717	325C107020	PEAKING COIL	56 μ H-J	VR4A0	127C091020	VR-SEMIFIXED	1/5W B100k Ω -M
VL6C1	349P166010	DL MATCH		VR5A0	127C091020	VR-SEMIFIXED	1/5W B100k Ω -M
VL6D8	332P007010	H-OSCILLATOR		VR6C1	127C080030	VR-SEMIFIXED	1/5W B500 Ω -M
TRANSFORMERS				VR6E9	127C081020	VR-SEMIFIXED	1/5W B100k Ω -M
○ T 3A0	409P717010	AUDIO BIAS OSC		VR6F1	127C091000	VR-SEMIFIXED	1/5W B30k Ω -M
○ T 901	350P526030	POWER	230V	VR6J5	127C090040	VR-SEMIFIXED	1/5W B1k Ω -M
VARIABLE RESISTORS				VR6K0	127C090020	VR-SEMIFIXED	1/5W B300 Ω -M
VR200	127C090070	VR-SEMIFIXED	1/5W B5k Ω -M	VR6K6	127C090040	VR-SEMIFIXED	1/5W B1k Ω -M
VR201	127C180070	VR-SEMIFIXED	1/5W B5k Ω -M	VR6P9	127C090020	VR-SEMIFIXED	1/5W B300 Ω -M
VR202	127C180050	VR-SEMIFIXED	1/5W B2k Ω -M	VR6001	127C080080	VR-SEMIFIXED	1/5W B10k Ω -M
VR2A0	127C080050	VR-SEMIFIXED	1/5W B2k Ω -M	VR6009	127C080080	VR-SEMIFIXED	1/5W B10k Ω -M
VR2A1	127C080080	VR-SEMIFIXED	1/5W B10k Ω -M	VR6015	127C090060	VR-SEMIFIXED	1/5W B3k Ω -M
VR2A2	127C080040	VR-SEMIFIXED	1/5W B1k Ω -M	VR6024	127C090060	VR-SEMIFIXED	1/5W B3k Ω -M
VR2A3	127C091000	VR-SEMIFIXED	1/5W B30k Ω -M	VR6030	127C090060	VR-SEMIFIXED	1/5W B3k Ω -M
VR2A5	127C090090	VR-SEMIFIXED	1/5W B20k Ω -M	VR702	127C090040	VR-SEMIFIXED	1/5W B1k Ω -M
VR2A6	127C090090	VR-SEMIFIXED	1/5W B20k Ω -M	VR703	127C090040	VR-SEMIFIXED	1/5W B1k Ω -M
VR2A7	127C081040	VR-SEMIFIXED	1/10W 300K	VR704	127C090040	VR-SEMIFIXED	1/5W B1k Ω -M
VR2A8	127C090090	VR-SEMIFIXED	1/5W B20k Ω -M	VR705	127C090060	VR-SEMIFIXED	1/5W B3k Ω -M
VR2A9	127C090080	VR-SEMIFIXED	1/5W B10k Ω -M	VR706	127C090050	VR-SEMIFIXED	1/5W B2k Ω -M
VR2B0	127C090090	VR-SEMIFIXED	1/5W B20k Ω -M	VR707	127C090020	VR-SEMIFIXED	1/5W B300 Ω -M
VR2B2	127C081010	VR-SEMIFIXED	1/5W B50k Ω -M	○ VR8A1	129C160060	VR-PCB	A20K L=20 CS
VR2B3	127C080090	VR-SEMIFIXED	1/5W B20k Ω -M	○ VR8A2	129C160060	VR-PCB	A20K L=20 CS
				○ VR8A3	129C160050	VR-PCB	C30K L=20 CS
				○ VR8A4	129C160050	VR-PCB	C30K L=20 CS
				○ VR8A5	129C161010	VR-PCB	1/40W B100K+S L=20

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○ VR8A6	129C161020	VR-PCB	1/40W B30K+SW L=20	R 224	103P474020	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 5.1kΩ-F
○ VR8001	129C160020	VR-SEMIFIXED	B20K L=15 CS	R 225	103P473050	CHIP RESISTOR	1/10W 2.7kΩ-F
○ VR8002	129C160020	VR-SEMIFIXED	B20K L=15 CS	R 226	103P402090	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 2.2kΩ-J
○ VR8003	129C160040	VR-PCB	B100K L=15	R 226	103P473050	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 2.7kΩ-F
○ VR8004	129C160040	VR-PCB	B100K L=15	R 227	103P474030	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 5.6kΩ-F
○ VR8005	129C162010	VR-PCB	A2KX2 L=15	R 227	103P474040	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 6.2kΩ-F
○ VR8006	129C160020	VR-SEMIFIXED	B20K L=15 CS	R 228	103P473030	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 2.2kΩ-F
RESISTORS				R 228	103P476050	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 47kΩ-F
R 201	103P472080	CHIP RESISTOR	1/10W 1.3kΩ-F	R 229	103P476010	CHIP RESISTOR	1/10W 33kΩ-F
R 203	103P400010	CHIP RESISTOR	1/10W 10Ω-J	R 230	103P475010	CHIP RESISTOR	1/10W 12kΩ-F
R 204	103P472060	CHIP RESISTOR	1/10W 1.1kΩ-F	R 231	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 205	103P409090	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 75Ω-J	R 235	103P472050	CHIP RESISTOR	1/10W 1kΩ-F
R 205	103P473000	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 1.6kΩ-F	R 236	103P472050	CHIP RESISTOR	1/10W 1kΩ-F
R 206	103P400010	CHIP RESISTOR	1/10W 10Ω-J	R 238	103P402030	CHIP RESISTOR	1/10W 680Ω-J
R 207	103P400010	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 10Ω-J	R 239	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 207	103P409050	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 0Ω	R 242	103P472050	CHIP RESISTOR	1/10W 1kΩ-F
R 208	103P409090	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 75Ω-J	R 243	103P472050	CHIP RESISTOR	1/10W 1kΩ-F
R 208	103P473010	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 1.8kΩ-F	R 244	103P404000	CHIP RESISTOR	1/10W 18kΩ-J
R 209	103P471020	CHIP RESISTOR	1/10W 300Ω-F	R 245	103P474010	CHIP RESISTOR	1/10W 4.7kΩ-F
R 210	103P401070	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 220Ω-J	R 246	103P476050	CHIP RESISTOR	1/10W 47kΩ-F
R 210	103P471050	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 390Ω-F	R 247	103P475020	CHIP RESISTOR	1/10W 13kΩ-F
R 211	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 248	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 212	103P471050	CHIP RESISTOR	1/10W 390Ω-F	R 249	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 213	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J	R 250	103P479070	CHIP RESISTOR	1/10W 1MΩ-F
R 214	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 251	103P471090	CHIP RESISTOR	1/10W 560Ω-F
R 216	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 252	103P473030	CHIP RESISTOR	1/10W 2.2kΩ-F
R 217	103P402050	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 1kΩ-J	R 258	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J
R 217	103P472050	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 1kΩ-F	R 259	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 218	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 260	103P401090	CHIP RESISTOR	1/10W 330Ω-J
R 219	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 261	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 220	103P402050	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 1kΩ-J	R 262	103P401090	CHIP RESISTOR	1/10W 330Ω-J
R 220	103P475070	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 22kΩ-F	R 265	103P476050	CHIP RESISTOR	1/10W 47kΩ-F
R 221	103P401070	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 220Ω-J	R 267	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J
R 221	103P475090	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 27kΩ-F	R 280	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 222	103P401050	CHIP RESISTOR (SIGNAL PCB ASSY)	1/10W 150Ω-J	R 295	103P402020	CHIP RESISTOR	1/10W 560Ω-J [B]
R 222	103P402040	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 820Ω-J	R 296	103P402020	CHIP RESISTOR	1/10W 560Ω-J [B]
R 223	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J	R 297	103P402020	CHIP RESISTOR	1/10W 560Ω-J [B]
R 224	103P402060	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 1.2kΩ-J	R 2A0	103P401070	CHIP RESISTOR	1/10W 220Ω-J
				R 2A1	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
				R 2A2	103P402010	CHIP RESISTOR	1/10W 470Ω-J
				R 2A3	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J
				R 2A4	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
				R 2A5	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
				R 2A6	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
				R 2A7	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
				R 2A8	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J
				R 2A9	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
				R 2B0	103P401030	CHIP RESISTOR	1/10W 100Ω-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2B1	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 2J2	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J
R 2B2	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 2J5	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 2B3	103P471090	CHIP RESISTOR	1/10W 560Ω-F	R 2J6	103P404000	CHIP RESISTOR	1/10W 18kΩ-J
R 2B4	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J	R 2J7	103P404040	CHIP RESISTOR	1/10W 39kΩ-J
R 2B5	103P471090	CHIP RESISTOR	1/10W 560Ω-F	R 2J8	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 2B6	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J	R 2J9	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J
R 2B7	103P401030	CHIP RESISTOR	1/10W 100Ω-J	R 2K0	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J
R 2B8	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 2K1	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2B9	103P472050	CHIP RESISTOR	1/10W 1kΩ-F	R 2K2	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2C0	103P472050	CHIP RESISTOR	1/10W 1kΩ-F	R 2K3	103P401030	CHIP RESISTOR	1/10W 100Ω-J
R 2C1	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	R 2K4	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 2C2	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 2K5	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 2C3	103P404050	CHIP RESISTOR	1/10W 47kΩ-J	R 2K6	103P402040	CHIP RESISTOR	1/10W 820Ω-J
R 2C4	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	R 2K7	103P403050	CHIP RESISTOR	1/10W 6.8kΩ-J
R 2C5	103P473030	CHIP RESISTOR	1/10W 2.2kΩ-F	R 2K8	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J
R 2C6	103P471090	CHIP RESISTOR	1/10W 560Ω-F	R 2L1	103P402030	CHIP RESISTOR	1/10W 680Ω-J
R 2C7	103P472010	CHIP RESISTOR	1/10W 680Ω-F	R 2L2	103P402010	CHIP RESISTOR	1/10W 470Ω-J
R 2C8	103P478090	CHIP RESISTOR	1/10W 470kΩ-F	R 2L4	103P402020	CHIP RESISTOR	1/10W 560Ω-J
R 2C9	103P478050	CHIP RESISTOR	1/10W 330kΩ-F	R 2L5	103P402000	CHIP RESISTOR	1/10W 390Ω-J
R 2D0	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 2L6	103P470080	CHIP RESISTOR	1/10W 200Ω-F
R 2D2	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 2L7	103P401060	CHIP RESISTOR	1/10W 180Ω-J
R 2D3	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 2M0	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J
R 2D4	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 2M1	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J
R 2D6	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 2M2	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2D8	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 2M3	103P402010	CHIP RESISTOR	1/10W 470Ω-J
R 2D9	103P402020	CHIP RESISTOR	1/10W 560Ω-J	R 2M4	103P402020	CHIP RESISTOR	1/10W 560Ω-J
R 2E1	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 2M5	103P401090	CHIP RESISTOR	1/10W 330Ω-J
R 2E2	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 2M6	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2E3	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J	R 2M8	103P403080	CHIP RESISTOR	1/10W 12kΩ-J
R 2E4	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 2M9	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 2E6	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 2N0	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2E7	103P401050	CHIP RESISTOR	1/10W 150Ω-J	R 2N1	103P402040	CHIP RESISTOR	1/10W 820Ω-J
R 2E9	103P474050	CHIP RESISTOR	1/10W 6.8K	R 2N2	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 2F0	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 2N3	103P402010	CHIP RESISTOR	1/10W 470Ω-J
R 2F1	103P402010	CHIP RESISTOR	1/10W 470Ω-J	R 2N4	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2F2	103P409050	CHIP RESISTOR	1/10W 0Ω	R 2N5	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J
R 2F4	103P409050	CHIP RESISTOR	1/10W 0Ω	R 2N6	103P409050	CHIP RESISTOR	1/10W 0Ω
R 2F7	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 2N7	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 2F8	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 2N8	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 2F9	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 2N9	103P406000	CHIP RESISTOR	1/10W 820K
R 2G0	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 2P0	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 2G1	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	R 2P1	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 2G2	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J	R 2P2	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2G3	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 2P3	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 2G4	103P403050	CHIP RESISTOR	1/10W 6.8kΩ-J	R 2P4	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 2H3	103P473020	CHIP RESISTOR	1/10W 2kΩ-F	R 2P5	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 2H4	103P473030	CHIP RESISTOR	1/10W 2.2kΩ-F	R 2P6	103P402020	CHIP RESISTOR	1/10W 560Ω-J
R 2H5	103P471000	CHIP RESISTOR	1/10W 240Ω-F	R 2P7	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 2H6	103P400090	CHIP RESISTOR	1/10W 47Ω-J	R 2P8	103P402080	CHIP RESISTOR	1/10W 1.8kΩ-J
R 2H7	103P402010	CHIP RESISTOR	1/10W 470Ω-J	R 2P9	103P402010	CHIP RESISTOR	1/10W 470Ω-J
R 2H8	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 2Q0	103P402010	CHIP RESISTOR	1/10W 470Ω-J
R 2H9	103P401060	CHIP RESISTOR	1/10W 180Ω-J	R 2Q1	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 2J0	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 2Q2	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 2J1	103P409050	CHIP RESISTOR	1/10W 0Ω	R 2Q3	103P402040	CHIP RESISTOR	1/10W 820Ω-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 204	103P402040	CHIP RESISTOR	1/10W 820Ω-J	R 2X3	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 205	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J	R 2X4	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 206	103P404020	CHIP RESISTOR	1/10W 27kΩ-J	R 2X5	103P404040	CHIP RESISTOR	1/10W 39kΩ-J
R 207	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 2X7	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
				R 2X8	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 208	103P402010	CHIP RESISTOR	1/10W 470Ω-J				
R 209	103P404050	CHIP RESISTOR	1/10W 47kΩ-J	R 2X9	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 2R0	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 2Y0	103P402000	CHIP RESISTOR	1/10W 390Ω-J
R 2R1	103P404000	CHIP RESISTOR	1/10W 18kΩ-J	R 2Y1	103P401080	CHIP RESISTOR	1/10W 270Ω-J
R 2R2	103P404030	CHIP RESISTOR	1/10W 33kΩ-J	R 2Y2	103P402010	CHIP RESISTOR	1/10W 470Ω-J
				R 2Y3	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 2R3	103P402050	CHIP RESISTOR	1/10W 1kΩ-J				
R 2R4	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J	R 2Y4	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J
R 2R5	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 2Y5	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 2R6	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 2Y6	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2R7	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 2Z0	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
				R 2Z5	103P405020	CHIP RESISTOR	1/10W 180kΩ-J
R 2R8	103P404000	CHIP RESISTOR	1/10W 18kΩ-J				
R 2R9	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J	R 2Z6	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 2S0	103P404030	CHIP RESISTOR	1/10W 33kΩ-J	R 2006	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 2S3	103P402000	CHIP RESISTOR	1/10W 390Ω-J	R 2007	103P402020	CHIP RESISTOR	1/10W 560Ω-J
R 2S4	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 2011	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J
				R 2012	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J
R 2S6	103P403070	CHIP RESISTOR	1/10W 10kΩ-J				
R 2S7	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 2014	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 2S9	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 2015	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 2T0	103P409050	CHIP RESISTOR	1/10W 0Ω	R 2016	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 2T2	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 2017	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
				R 2018	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2T3	103P401070	CHIP RESISTOR	1/10W 220Ω-J				
R 2T4	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 2019	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 2T5	103P409050	CHIP RESISTOR	1/10W 0Ω	R 2020	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2T8	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J	R 2021	103P405010	CHIP RESISTOR	1/10W 150kΩ-J
R 2T9	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J	R 2022	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
				R 2023	103P404070	CHIP RESISTOR	1/10W 68kΩ-J
R 2U0	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J				
R 2U1	103P403020	CHIP RESISTOR	1/10W 3.9kΩ-J	R 2025	103P403090	CHIP RESISTOR	1/10W 15kΩ-J
R 2U3	103P403050	CHIP RESISTOR	1/10W 6.8kΩ-J	R 2026	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 2U4	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 2029	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J
R 2U5	103P403080	CHIP RESISTOR	1/10W 12kΩ-J	R 2031	103P473090	CHIP RESISTOR	1/10W 3.9kΩ-F
				R 2032	103P402000	CHIP RESISTOR	1/10W 390Ω-J
R 2U6	103P403090	CHIP RESISTOR	1/10W 15kΩ-J				
R 2U7	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 2033	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 2U8	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J	R 301	103P404000	CHIP RESISTOR	1/10W 18kΩ-J
R 2U9	103P402050	CHIP RESISTOR	1/10W 1kΩ-J			(AUDIO PCB ASSY)	
R 2V0	103P402020	CHIP RESISTOR	1/10W 560Ω-J	R 301	103P471090	CHIP RESISTOR	1/10W 560Ω-F
						(HEAD-AMP PCB ASSY)	
R 2V1	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 302	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J
R 2V2	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 303	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 2V3	103P402040	CHIP RESISTOR	1/10W 820Ω-J			(AUDIO PCB ASSY)	
R 2V4	103P402050	CHIP RESISTOR	1/10W 1kΩ-J				
R 2V5	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 303	103P471070	CHIP RESISTOR	1/10W 220Ω-J
						(HEAD-AMP PCB ASSY)	
R 2V6	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 304	103P400010	CHIP RESISTOR	1/10W 10Ω-J
R 2W4	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J			(HEAD-AMP PCB ASSY)	
R 2W5	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	○ R 304	103P401000	CHIP RESISTOR	1/10W 56Ω-J
R 2W6	103P402050	CHIP RESISTOR	1/10W 1kΩ-J			(AUDIO PCB ASSY)	
R 2W7	103P401030	CHIP RESISTOR	1/10W 100Ω-J	R 305	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
						(AUDIO PCB ASSY)	
R 2W8	103P402020	CHIP RESISTOR	1/10W 560Ω-J	R 305	103P471070	CHIP RESISTOR	1/10W 220Ω-J
R 2W9	103P406050	CHIP RESISTOR	1/10W 2.2MΩ-J			(HEAD-AMP PCB ASSY)	
R 2X0	103P402050	CHIP RESISTOR	1/10W 1kΩ-J				
R 2X1	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 306	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J
R 2X2	103P404050	CHIP RESISTOR	1/10W 47kΩ-J			(AUDIO PCB ASSY)	

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 306	103P471090	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 560Ω-F	○ R 325	103P405080	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 560kΩ-J
R 307	103P403040	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 5.6kΩ-J	R 326	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 307	103P472050	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 1kΩ-F	R 327	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 308	103P402090	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 2.2kΩ-J	R 328	103P405070	CHIP RESISTOR	1/10W 470kΩ-J
R 308	103P403070	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 10kΩ-J	R 329	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 309	103P402040	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 820Ω-J	R 330	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 309	103P402090	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 2.2kΩ-J	R 331	103P404060	CHIP RESISTOR	1/10W 56kΩ-J
R 310	103P404060	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 56kΩ-J	R 332	103P404090	CHIP RESISTOR	1/10W 100kΩ-J
R 310	103P472050	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 1kΩ-F	R 333	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
R 311	103P400010	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 10Ω-J	R 334	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 311	103P402050	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 1kΩ-J	R 335	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J
R 312	103P400010	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 10Ω-J	R 336	103P404090	CHIP RESISTOR	1/10W 100kΩ-J
R 312	103P404010	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 22kΩ-J	○ R 337	103P400080	CHIP METAL	1/10W 39Ω-J
R 313	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 340	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 314	103P470090	CHIP RESISTOR	1/10W 220Ω-F	R 341	103P404090	CHIP RESISTOR	1/10W 100kΩ-J
R 315	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J	R 345	103P402000	CHIP RESISTOR	1/10W 390Ω-J
R 316	103P403010	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 3.3kΩ-J	R 346	103P404090	CHIP RESISTOR	1/10W 100kΩ-J
R 316	103P471050	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 390Ω-F	R 360	103P404010	CHIP RESISTOR	1/10W 22kΩ-J [B]
R 317	103P403070	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 10kΩ-J	R 3A0	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
R 317	103P470010	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 100Ω-F	R 3A1	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 318	103P472010	CHIP RESISTOR	1/10W 680Ω-F	R 3A2	103P404000	CHIP RESISTOR	1/10W 18kΩ-J
R 319	103P401030	CHIP RESISTOR	1/10W 100Ω-J	R 3A3	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
R 320	103P402020	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 560Ω-J	R 3A4	103P400010	CHIP RESISTOR	1/10W 10Ω-J
R 320	103P403070	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 10kΩ-J	R 3A5	103P402020	CHIP RESISTOR	1/10W 560Ω-J
R 321	103P400010	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 10Ω-J	R 3A6	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 321	103P404010	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 22kΩ-J	R 3A7	103P405050	CHIP RESISTOR	1/10W 330kΩ-J
R 322	103P404010	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 22kΩ-J	R 3A8	103P403080	CHIP RESISTOR	1/10W 12kΩ-J
R 322	103P471070	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 220Ω-J	R 3A9	103P406010	CHIP RESISTOR	1/10W 1MΩ-J
R 323	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3B0	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 324	103P403010	CHIP RESISTOR (AUDIO PCB ASSY)	1/10W 3.3kΩ-J	R 3B1	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 324	103P479050	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/10W 820kΩ-F	R 3B2	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 325	103P355070	CHIP RESISTOR (HEAD-AMP PCB ASSY)	1/8W 470kΩ-J	R 3B4	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J
				R 3B5	103P403050	CHIP RESISTOR	1/10W 6.8kΩ-J
				R 3B6	103P401010	CHIP RESISTOR	1/10W 68Ω-J
				R 3B7	103P401040	CHIP RESISTOR	1/10W 120Ω-J
				R 3B8	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
				R 3C0	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
				R 3C1	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
				R 3C2	103P400090	CHIP RESISTOR	1/10W 47Ω-J
				R 3C3	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
				R 3C4	103P400010	CHIP RESISTOR	1/10W 10Ω-J
				R 3C5	103P402020	CHIP RESISTOR	1/10W 560Ω-J
				R 3C6	103P401070	CHIP RESISTOR	1/10W 220Ω-J
				R 3C7	103P405050	CHIP RESISTOR	1/10W 330kΩ-J
				R 3C8	103P403080	CHIP RESISTOR	1/10W 12kΩ-J
				R 3C9	103P406010	CHIP RESISTOR	1/10W 1MΩ-J
				R 3D0	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
				R 3D1	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
				R 3D2	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
				R 3D4	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J
				R 3D5	103P403050	CHIP RESISTOR	1/10W 6.8kΩ-J
				R 3D6	103P401010	CHIP RESISTOR	1/10W 68Ω-J
				R 3D7	103P401040	CHIP RESISTOR	1/10W 120Ω-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 3D8	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3K6	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J
R 3D9	103P404020	CHIP RESISTOR	1/10W 27kΩ-J	R 3K7	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J
R 3E0	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3K8	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3E1	103P404050	CHIP RESISTOR	1/10W 47kΩ-J	R 3K9	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
R 3E2	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J	R 3L0	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3E3	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 3L3	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3E4	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 3L4	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3E5	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 3L5	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3E6	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 3L6	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3E7	103P477040	CHIP RESISTOR	1/10W 110kΩ-F	R 3L8	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
R 3E8	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3L9	103P404070	CHIP RESISTOR	1/10W 68kΩ-J
R 3E9	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 3M0	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3F0	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 3M1	103P404070	CHIP RESISTOR	1/10W 68kΩ-J
R 3F1	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 3M2	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3F2	103P401010	CHIP RESISTOR	1/10W 68Ω-J	R 3M3	103P404060	CHIP RESISTOR	1/10W 56kΩ-J
R 3F7	103P403050	CHIP RESISTOR	1/10W 6.8kΩ-J	R 3M4	103P403090	CHIP RESISTOR	1/10W 15kΩ-J
R 3F8	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 3M5	103P404060	CHIP RESISTOR	1/10W 56kΩ-J
R 3F9	103P409050	CHIP RESISTOR	1/10W 0Ω	R 3M6	103P403090	CHIP RESISTOR	1/10W 15kΩ-J
R 3G0	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 3M8	103P403020	CHIP RESISTOR	1/10W 3.9kΩ-J
R 3G1	103P403060	CHIP RESISTOR	1/10W 8.2kΩ-J	R 3M9	103P403020	CHIP RESISTOR	1/10W 3.9kΩ-J
R 3G2	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 3P1	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3G3	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 3X4	103P405070	CHIP RESISTOR	1/10W 470kΩ-J
R 3G4	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 3X5	103P405070	CHIP RESISTOR	1/10W 470kΩ-J
R 3G5	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 3X6	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3G6	103P477040	CHIP RESISTOR	1/10W 110kΩ-F	R 3X8	103P406000	CHIP RESISTOR	1/10W 820K
R 3G7	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3X9	103P473070	CHIP RESISTOR	1/10W 3.3kΩ-F
R 3G8	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 3Y0	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3G9	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 3Y3	103P473070	CHIP RESISTOR	1/10W 3.3kΩ-F
R 3H0	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 3Y4	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3H1	103P401010	CHIP RESISTOR	1/10W 68Ω-J	R 3001	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3H2	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J	R 3002	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3H3	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 3003	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3H4	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J	R 3004	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3H5	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 3005	103P401010	CHIP RESISTOR	1/10W 68Ω-J
R 3H6	103P401030	CHIP RESISTOR	1/10W 100Ω-J	R 3006	103P401010	CHIP RESISTOR	1/10W 68Ω-J
R 3H7	103P404050	CHIP RESISTOR	1/10W 47kΩ-J	R 3007	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3H8	103P404060	CHIP RESISTOR	1/10W 56kΩ-J	R 3008	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3H9	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	R 3009	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 3J0	103P405020	CHIP RESISTOR	1/10W 180kΩ-J	R 3010	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 3J1	103P405020	CHIP RESISTOR	1/10W 180kΩ-J	R 3012	103P404090	CHIP RESISTOR	1/10W 100kΩ-J
R 3J2	103P401030	CHIP RESISTOR	1/10W 100Ω-J	R 3014	103P404000	CHIP RESISTOR	1/10W 18kΩ-J
R 3J3	103P404050	CHIP RESISTOR	1/10W 47kΩ-J	R 3015	103P404000	CHIP RESISTOR	1/10W 18kΩ-J
R 3J4	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J	R 3017	103P401030	CHIP RESISTOR	1/10W 100Ω-J
R 3J5	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J	R 3018	103P401030	CHIP RESISTOR	1/10W 100Ω-J
R 3J6	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	R 3019	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3J7	103P404060	CHIP RESISTOR	1/10W 56kΩ-J	R 3020	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3J8	103P401030	CHIP RESISTOR	1/10W 100Ω-J	R 3021	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3J9	103P404050	CHIP RESISTOR	1/10W 47kΩ-J	R 3023	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J
R 3K0	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3024	103P405020	CHIP RESISTOR	1/10W 180kΩ-J
R 3K1	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3025	103P405020	CHIP RESISTOR	1/10W 180kΩ-J
R 3K2	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3027	103P404090	CHIP RESISTOR	1/10W 100kΩ-J
R 3K3	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3028	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 3K4	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 3029	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J
R 3K5	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 3031	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
				R 3032	103P404090	CHIP RESISTOR	1/10W 100kΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 3033	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 5004	103P614090	NETWORK	1/8W 100kΩ-JX11
R 3034	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 5005	103P543070	NETWORK	1/8W 10kΩ-JX4
R 3036	103P404090	CHIP RESISTOR	1/10W 100kΩ-J	R 5006	103P544090	NETWORK	1/8W 100kΩ-JX4
R 3038	103P471000	CHIP RESISTOR	1/10W 240Ω-F	R 6A0	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3351	103P402040	CHIP RESISTOR	1/10W 820Ω-J	R 6A1	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3352	103P402040	CHIP RESISTOR	1/10W 820Ω-J	R 6A2	103P401050	CHIP RESISTOR	1/10W 150Ω-J
R 3353	103P402040	CHIP RESISTOR	1/10W 820Ω-J	R 6A3	103P402000	CHIP RESISTOR	1/10W 390Ω-J
R 3354	103P402040	CHIP RESISTOR	1/10W 820Ω-J	R 6A4	103P402000	CHIP RESISTOR	1/10W 390Ω-J
R 3355	103P402030	CHIP RESISTOR	1/10W 680Ω-J	R 6A5	103P402030	CHIP RESISTOR	1/10W 680Ω-J
R 3356	103P402030	CHIP RESISTOR	1/10W 680Ω-J	R 6A6	103P402000	CHIP RESISTOR	1/10W 390Ω-J
R 3361	103P472060	CHIP RESISTOR	1/10W 1.1kΩ-F	R 6A7	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3362	103P472060	CHIP RESISTOR	1/10W 1.1kΩ-F	R 6A8	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 3363	103P474090	CHIP RESISTOR	1/10W 10kΩ-F	R 6A9	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 3364	103P474090	CHIP RESISTOR	1/10W 10kΩ-F	R 6B0	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J
R 3365	103P475050	CHIP RESISTOR	1/10W 18kΩ-F	R 6B1	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 3366	103P475050	CHIP RESISTOR	1/10W 18kΩ-F	R 6B2	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J
R 3367	103P474030	CHIP RESISTOR	1/10W 5.6kΩ-F	R 6B3	103P402010	CHIP RESISTOR	1/10W 470Ω-J
R 3368	103P474030	CHIP RESISTOR	1/10W 5.6kΩ-F	R 6C0	103P401090	CHIP RESISTOR	1/10W 330Ω-J
R 3369	103P475090	CHIP RESISTOR	1/10W 27kΩ-F	R 6C2	103P401060	CHIP RESISTOR	1/10W 180Ω-J
R 3370	103P475090	CHIP RESISTOR	1/10W 27kΩ-F	R 6C3	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 3371	103P475010	CHIP RESISTOR	1/10W 12kΩ-F	R 6C4	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 3372	103P474070	CHIP RESISTOR	1/10W 8.2kΩ-F	R 6C5	103P402030	CHIP RESISTOR	1/10W 680Ω-J
R 3373	103P473080	CHIP RESISTOR	1/10W 3.6kΩ-F	R 6C6	103P401030	CHIP RESISTOR	1/10W 100Ω-J
R 3374	103P472070	CHIP RESISTOR	1/10W 1.2kΩ-F	R 6C7	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J
R 3378	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 6C8	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 3379	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 6C9	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 3381	103P474060	CHIP RESISTOR	1/10W 7.5kΩ-F	R 6D0	103P409050	CHIP RESISTOR	1/10W 0Ω
R 3382	103P405050	CHIP RESISTOR	1/10W 330kΩ-J	R 6D1	103P404060	CHIP RESISTOR	1/10W 56kΩ-J
R 3384	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 6D3	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3385	103P402080	CHIP RESISTOR	1/10W 1.8kΩ-J	R 6D4	103P404040	CHIP RESISTOR	1/10W 39kΩ-J
R 3386	103P404030	CHIP RESISTOR	1/10W 33kΩ-J	R 6D5	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3389	103P404020	CHIP RESISTOR	1/10W 27kΩ-J	R 6D6	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3390	103P404020	CHIP RESISTOR	1/10W 27kΩ-J	R 6D7	103P403020	CHIP RESISTOR	1/10W 3.9kΩ-J
R 3391	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 6D8	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3392	103P404060	CHIP RESISTOR	1/10W 56kΩ-J	R 6E0	103P404060	CHIP RESISTOR	1/10W 56kΩ-J
R 3393	103P404060	CHIP RESISTOR	1/10W 56kΩ-J	R 6E1	103P473010	CHIP RESISTOR	1/10W 1.8kΩ-F
R 3394	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J	R 6E3	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3395	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 6E4	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J
R 3396	103P409050	CHIP RESISTOR	1/10W 0Ω	R 6E5	103P403020	CHIP RESISTOR	1/10W 3.9kΩ-J
R 3399	103P401090	CHIP RESISTOR	1/10W 330Ω-J	R 6E6	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 3453	103P406000	CHIP RESISTOR	1/10W 820K	R 6E7	103P404000	CHIP RESISTOR	1/10W 18kΩ-J
R 3454	103P406000	CHIP RESISTOR	1/10W 820K	R 6E8	103P403090	CHIP RESISTOR	1/10W 15kΩ-J
R 3455	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 6E9	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J
R 3480	103P472050	CHIP RESISTOR	1/10W 1kΩ-F	R 6F0	103P403020	CHIP RESISTOR	1/10W 3.9kΩ-J
R 3481	103P471080	CHIP RESISTOR	1/10W 510Ω-F	R 6F1	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 3482	103P401090	CHIP RESISTOR	1/10W 330Ω-J	R 6F2	103P404040	CHIP RESISTOR	1/10W 39kΩ-J
R 3483	103P404060	CHIP RESISTOR	1/10W 56kΩ-J	R 6F3	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3484	103P409050	CHIP RESISTOR	1/10W 0Ω	R 6F4	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 3509	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J	R 6F5	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 3510	103P473040	CHIP RESISTOR	1/10W 2.4kΩ-F	R 6F6	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 3511	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 6F7	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J
R 5D5	103P398090	FUSE	1/2W 5.6Ω-J	R 6F8	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 5M1	103P398090	FUSE	1/2W 5.6Ω-J	R 6F9	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 5002	103P543070	NETWORK	1/8W 10kΩ-JX4	R 6G0	103P402050	CHIP RESISTOR	1/10W 1kΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 6G1	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6R2	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6G2	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J	R 6R3	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
				R 6R4	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 6G3	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6R5	103P405030	CHIP RESISTOR	1/10W 220kΩ-J
R 6G6	103P401080	CHIP RESISTOR	1/10W 270Ω-J	R 6S0	103P405010	CHIP RESISTOR	1/10W 150kΩ-J
R 6G7	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J	R 6S1	103P404080	CHIP RESISTOR	1/10W 82kΩ-J
R 6G8	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 6S2	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 6G9	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J	R 6S3	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 6H8	103P473030	CHIP RESISTOR	1/10W 2.2kΩ-F	R 6S4	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 6H9	103P473030	CHIP RESISTOR	1/10W 2.2kΩ-F	R 6S5	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J
R 6J0	103P470010	CHIP RESISTOR	1/10W 100Ω-F	R 6T0	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J
R 6J1	103P404030	CHIP RESISTOR	1/10W 33kΩ-J	R 6T1	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J
R 6J2	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	R 6T2	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 6J3	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6T3	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 6J4	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6000	103P404050	CHIP RESISTOR	1/10W 47kΩ-J
R 6J6	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6004	103P405000	CHIP RESISTOR	1/10W 120kΩ-J
R 6J7	103P471050	CHIP RESISTOR	1/10W 390Ω-F	R 6008	103P406000	CHIP RESISTOR	1/10W 820K
R 6K1	103P470010	CHIP RESISTOR	1/10W 100Ω-F	R 6009	103P406000	CHIP RESISTOR	1/10W 820K
R 6K2	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	R 6011	103P404080	CHIP RESISTOR	1/10W 82kΩ-J
R 6K3	103P404030	CHIP RESISTOR	1/10W 33kΩ-J	R 6012	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 6K4	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6013	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6K5	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6014	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6K7	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6016	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6K8	103P400070	CHIP RESISTOR	1/10W 33Ω-J	R 6017	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6K9	103P405010	CHIP RESISTOR	1/10W 150kΩ-J	R 6018	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 6L0	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J	R 6019	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 6L1	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6021	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6L3	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J	R 6022	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 6L4	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 6023	103P403080	CHIP RESISTOR	1/10W 12kΩ-J
R 6L6	103P471010	CHIP RESISTOR	1/10W 270Ω-F	R 6025	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6M0	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 6026	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6M1	103P404010	CHIP RESISTOR	1/10W 22kΩ-J	R 6027	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
R 6M2	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6028	103P404000	CHIP RESISTOR	1/10W 18kΩ-J
R 6M3	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6031	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6M4	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	R 6032	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6M6	103P404000	CHIP RESISTOR	1/10W 18kΩ-J	R 6033	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
R 6M7	103P401090	CHIP RESISTOR	1/10W 330Ω-J	R 6034	103P403070	CHIP RESISTOR	1/10W 10kΩ-J
R 6P0	103P472050	CHIP RESISTOR	1/10W 1kΩ-F	R 6036	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6P1	103P470010	CHIP RESISTOR	1/10W 100Ω-F	R 6037	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 6P2	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J	R 6038	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 6P3	103P472090	CHIP RESISTOR	1/10W 1.5K	R 6039	103P404000	CHIP RESISTOR	1/10W 18kΩ-J
R 6P4	103P472090	CHIP RESISTOR	1/10W 1.5K	R 6040	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6P5	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 6041	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 6P7	103P470050	CHIP RESISTOR	1/10W 150Ω-F	R 6042	103P402030	CHIP RESISTOR	1/10W 680Ω-J
R 6P8	103P471050	CHIP RESISTOR	1/10W 390Ω-F	R 6043	103P401050	CHIP RESISTOR	1/10W 150Ω-J
R 6Q0	103P401030	CHIP RESISTOR	1/10W 100Ω-J	R 6044	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6Q1	103P401030	CHIP RESISTOR	1/10W 100Ω-J	R 6045	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 6Q2	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J	R 6046	103P477060	CHIP RESISTOR	1/10W 130kΩ-F
R 6Q3	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J	R 6047	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J
R 6Q4	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 6048	103P402010	CHIP RESISTOR	1/10W 470Ω-J
R 6Q7	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J	R 6049	103P402010	CHIP RESISTOR	1/10W 470Ω-J
R 6Q8	103P471030	CHIP RESISTOR	1/10W 330Ω-F	R 6050	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 6Q9	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6051	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J
R 6R0	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 6052	103P402010	CHIP RESISTOR	1/10W 470Ω-J
R 6R1	103P401070	CHIP RESISTOR	1/10W 220Ω-J				

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 6053	103P402010	CHIP RESISTOR	1/10W 470Ω-J	R 747	103P471050	CHIP RESISTOR	1/10W 390Ω-F
R 6054	103P402010	CHIP RESISTOR	1/10W 470Ω-J	R 748	103P470010	CHIP RESISTOR	1/10W 100Ω-F
R 6055	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 749	103P403090	CHIP RESISTOR	1/10W 15kΩ-J
R 6056	103P402010	CHIP RESISTOR	1/10W 470Ω-J	R 750	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
				R 751	103P401030	CHIP RESISTOR	1/10W 100Ω-J
R 6060	103P403030	CHIP RESISTOR	1/10W 4.7kΩ-J				
R 6063	103P405040	CHIP RESISTOR	1/10W 270kΩ-J	R 752	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 6067	103P403070	CHIP RESISTOR	1/10W 10kΩ-J	R 753	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 700	103P401030	CHIP RESISTOR	1/10W 100Ω-J	R 754	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 701	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 755	103P403050	CHIP RESISTOR	1/10W 6.8kΩ-J
				R 756	103P402070	CHIP RESISTOR	1/10W 1.5kΩ-J
R 702	103P472050	CHIP RESISTOR	1/10W 1kΩ-F				
R 703	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 757	103P404010	CHIP RESISTOR	1/10W 22kΩ-J
R 704	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 758	103P473030	CHIP RESISTOR	1/10W 2.2kΩ-F
R 705	103P472050	CHIP RESISTOR	1/10W 1kΩ-F	R 759	103P473030	CHIP RESISTOR	1/10W 2.2kΩ-F
R 706	103P472050	CHIP RESISTOR	1/10W 1kΩ-F	R 760	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
				R 761	103P402050	CHIP RESISTOR	1/10W 1kΩ-J
R 707	103P404030	CHIP RESISTOR	1/10W 33kΩ-J				
R 708	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	R 762	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 709	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 763	103P404030	CHIP RESISTOR	1/10W 33kΩ-J
R 710	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	R 764	103P401070	CHIP RESISTOR	1/10W 220Ω-J
R 711	103P470090	CHIP RESISTOR	1/10W 220Ω-F	R 765	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J
				R 766	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 712	103P402050	CHIP RESISTOR	1/10W 1kΩ-J				
R 713	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 767	103P404020	CHIP RESISTOR	1/10W 27kΩ-J
R 714	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J	R 768	103P472090	CHIP RESISTOR	1/10W 1.5kΩ
R 715	103P471070	CHIP RESISTOR	1/10W 220Ω-J	R 769	103P472050	CHIP RESISTOR	1/10W 1kΩ-F
R 716	103P406050	CHIP RESISTOR	1/10W 2.2MΩ-J	R 770	103P472010	CHIP RESISTOR	1/10W 680Ω-F
				R 771	103P402060	CHIP RESISTOR	1/10W 1.2kΩ-J
R 717	103P404030	CHIP RESISTOR	1/10W 33kΩ-J				
R 718	103P404020	CHIP RESISTOR	1/10W 27kΩ-J	R 772	103P403080	CHIP RESISTOR	1/10W 12kΩ-J
R 719	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J	R 773	103P475000	CHIP RESISTOR	1/10W 11kΩ-F
R 720	103P401070	CHIP RESISTOR	1/10W 220Ω-J	R 774	103P402080	CHIP RESISTOR	1/10W 1.8kΩ-J
R 721	103P402090	CHIP RESISTOR	1/10W 2.2kΩ-J	R 775	103P402080	CHIP RESISTOR	1/10W 1.8kΩ-J
				R 902	109P052010	FUSE	1/4W 100Ω-J
R 722	103P471070	CHIP RESISTOR	1/10W 220Ω-J				
R 723	103P406050	CHIP RESISTOR	1/10W 2.2MΩ-J	R 912	103P370070	FUSE	1/4W 33Ω-J
R 724	103P473030	CHIP RESISTOR	1/10W 2.2kΩ-F	R 917	103P378090	FUSE	1/4W 5.6Ω-J
R 725	103P474010	CHIP RESISTOR	1/10W 4.7kΩ-F	R 930	109P052050	FUSE	1/4W 6.8Ω-J
R 726	103P472050	CHIP RESISTOR	1/10W 1kΩ-F	RJ 10	103P409050	CHIP RESISTOR	1/10W 0Ω
				RJ 11	103P409050	CHIP RESISTOR	1/10W 0Ω
R 727	103P402050	CHIP RESISTOR	1/10W 1kΩ-J				
R 728	103P401070	CHIP RESISTOR	1/10W 220Ω-J	RJ 12	103P409050	CHIP RESISTOR	1/10W 0Ω
R 729	103P403040	CHIP RESISTOR	1/10W 5.6kΩ-J	RJ 13	103P409050	CHIP RESISTOR	1/10W 0Ω
R 730	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	RJ 14	103P409050	CHIP RESISTOR	1/10W 0Ω
R 731	103P401080	CHIP RESISTOR	1/10W 270Ω-J	RJ 15	103P409050	CHIP RESISTOR	1/10W 0Ω
				RJ 16	103P409050	CHIP RESISTOR	1/10W 0Ω
R 732	103P401080	CHIP RESISTOR	1/10W 270Ω-J				
R 733	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	RJ 17	103P409050	CHIP RESISTOR	1/10W 0Ω
R 734	103P403000	CHIP RESISTOR	1/10W 2.7kΩ-J	RJ 18	103P409050	CHIP RESISTOR	1/10W 0Ω
R 735	103P403090	CHIP RESISTOR	1/10W 15kΩ-J	RJ 19	103P409050	CHIP RESISTOR	1/10W 0Ω
R 736	103P472070	CHIP RESISTOR	1/10W 1.2kΩ-F	RJ 20	103P409050	CHIP RESISTOR	1/10W 0Ω
				RJ 21	103P409050	CHIP RESISTOR	1/10W 0Ω
R 737	103P471070	CHIP RESISTOR	1/10W 220Ω-J				
R 738	103P471070	CHIP RESISTOR	1/10W 220Ω-J	RJ 22	103P409050	CHIP RESISTOR	1/10W 0Ω
R 739	103P403010	CHIP RESISTOR	1/10W 3.3kΩ-J	RJ 23	103P409050	CHIP RESISTOR	1/10W 0Ω
R 740	103P472050	CHIP RESISTOR	1/10W 1kΩ-F	RJ 24	103P409050	CHIP RESISTOR	1/10W 0Ω
R 741	103P472050	CHIP RESISTOR	1/10W 1kΩ-F	RJ 25	103P409050	CHIP RESISTOR	1/10W 0Ω
				RJ 26	103P409050	CHIP RESISTOR	1/10W 0Ω
R 742	103P403090	CHIP RESISTOR	1/10W 15kΩ-J				
R 743	103P404030	CHIP RESISTOR	1/10W 33kΩ-J	RJ 27	103P409050	CHIP RESISTOR	1/10W 0Ω
R 744	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	RJ 28	103P409050	CHIP RESISTOR	1/10W 0Ω
R 745	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	RJ 29	103P409050	CHIP RESISTOR	1/10W 0Ω
R 746	103P402050	CHIP RESISTOR	1/10W 1kΩ-J	RJ 30	103P409050	CHIP RESISTOR	1/10W 0Ω
				RJ 31	103P409050	CHIP RESISTOR	1/10W 0Ω

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
RJ 32	103P409050	CHIP RESISTOR	1/10W 0Ω	C 229	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
RJ 33	103P409050	CHIP RESISTOR	1/10W 0Ω	C 230	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z
RJ 34	103P409050	CHIP RESISTOR	1/10W 0Ω	C 231	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
RJ 1	103P409050	CHIP RESISTOR	1/10W 0Ω			(SIGNAL PCB ASSY)	
RJ 2	103P409050	CHIP RESISTOR	1/10W 0Ω	C 231	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z
						(HEAD-AMP PCB ASSY)	
RJ 3	103P409050	CHIP RESISTOR	1/10W 0Ω	C 232	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z
RJ 4	103P409050	CHIP RESISTOR	1/10W 0Ω			(HEAD-AMP PCB ASSY)	
RJ 5	103P409050	CHIP RESISTOR	1/10W 0Ω	C 232	181P502030	CHIP CAPACITOR	16V 10 μF-M
RJ 6	103P409050	CHIP RESISTOR	1/10W 0Ω			(SIGNAL PCB ASSY)	
RJ 7	103P409050	CHIP RESISTOR	1/10W 0Ω	C 234	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z
				C 235	154P321060	CHIP CAPACITOR	SL50V 15pF-J
RJ 8	103P409050	CHIP RESISTOR	1/10W 0Ω	C 236	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z
RJ 9	103P409050	CHIP RESISTOR	1/10W 0Ω	C 237	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z
RJ201	103P409050	CHIP RESISTOR	1/10W 0Ω				
RJ202	103P409050	CHIP RESISTOR	1/10W 0Ω	C 238	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z
RJ203	103P409050	CHIP RESISTOR	1/10W 0Ω	C 239	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
				C 241	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z
RJ204	103P409050	CHIP RESISTOR	1/10W 0Ω			(HEAD-AMP PCB ASSY)	
RJ205	103P409050	CHIP RESISTOR	1/10W 0Ω	C 241	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K
RJ206	103P409050	CHIP RESISTOR	1/10W 0Ω			(SIGNAL PCB ASSY)	
RJ282	103P409050	CHIP RESISTOR	1/10W 0Ω	C 242	154P330060	CHIP CAPACITOR	CH50V 5pF-C
CAPACITORS AND TRIMMERS							
C 201	141P130090	CHIP CAPACITOR	B50V 1000pF-K	C 250	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
		(HEAD-AMP PCB ASSY)		C 251	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
C 201	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K	C 257	154P325040	CHIP CAPACITOR	SL50V 560pF-J
		(SIGNAL PCB ASSY)		C 258	141P130090	CHIP CAPACITOR	B50V 1000pF-K
C 203	154P330050	CHIP CAPACITOR	CH50V 4pF-C	C 2A1	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K
C 204	141P135080	CHIP CAPACITOR	F25V 0.1 μF-Z				
C 206	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K	C 2A2	141P130090	CHIP CAPACITOR	B50V 1000pF-K
		(SIGNAL PCB ASSY)		C 2A3	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K
C 206	141P135080	CHIP CAPACITOR	F25V 0.1 μF-Z	C 2A5	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K
		(HEAD-AMP PCB ASSY)		C 2A7	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K
C 209	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K	C 2A8	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
		(SIGNAL PCB ASSY)					
C 209	154P330040	CHIP CAPACITOR	CJ50V 3pF-C	C 2B1	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
		(HEAD-AMP PCB ASSY)		C 2B2	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
C 210	181P502060	CHIP CAPACITOR	16V 47 μF-M	C 2B5	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K
C 211	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	C 2C0	154P322020	CHIP CAPACITOR	SL50V 27pF-J
				C 2D0	154P321060	CHIP CAPACITOR	SL50V 15pF-J
C 213	154P330060	CHIP CAPACITOR	CH50V 5pF-C				
C 214	141P135080	CHIP CAPACITOR	F25V 0.1 μF-Z	C 2D3	154P333030	CHIP CAPACITOR	CH50V 82pF-J
C 215	141P135080	CHIP CAPACITOR	F25V 0.1 μF-Z	C 2D7	154P332090	CHIP CAPACITOR	CH50V 56pF-J
C 217	154P330060	CHIP CAPACITOR	CH50V 5pF-C	C 2D9	154P334090	CHIP CAPACITOR	CH50V 390pF-J
C 218	141P135080	CHIP CAPACITOR	F25V 0.1 μF-Z	C 2E1	154P332090	CHIP CAPACITOR	CH50V 56pF-J
				C 2E2	154P333010	CHIP CAPACITOR	CH50V 68pF-J
C 219	141P130090	CHIP CAPACITOR	B50V 1000pF-K				
C 220	141P135080	CHIP CAPACITOR	F25V 0.1 μF-Z	C 2E3	154P324040	CHIP CAPACITOR	SL50V 220pF-J
C 222	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	C 2E5	154P334090	CHIP CAPACITOR	CH50V 390pF-J
C 223	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	C 2E6	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
C 224	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K	C 2E7	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
		(SIGNAL PCB ASSY)		C 2E8	154P332010	CHIP CAPACITOR	CH50V 27pF-J
C 224	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z				
		(HEAD-AMP PCB ASSY)		C 2E9	154P331010	CHIP CAPACITOR	CH50V 10pF-C
C 225	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	C 2F0	154P332050	CHIP CAPACITOR	CH50V 39pF-J
C 226	141P130090	CHIP CAPACITOR	B50V 1000pF-K	C 2F1	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
C 227	141P130090	CHIP CAPACITOR	B50V 1000pF-K	C 2F3	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
C 228	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K	C 2F4	154P331010	CHIP CAPACITOR	CH50V 10pF-C
				C 2F5	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
				C 2F6	141P132010	CHIP CAPACITOR	B50V 0.01 μF-K
				C 2F7	154P332050	CHIP CAPACITOR	CH50V 39pF-J
				C 2G0	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K
				C 2G1	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2G2	154P332090	CHIP CAPACITOR	CH50V 56pF-J	C 2P0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 2G4	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2P4	154P333070	CHIP CAPACITOR	CH50V 120pF-J
C 2G5	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2Q0	154P322040	CHIP CAPACITOR	SL50V 33pF-J
C 2G7	154P323080	CHIP CAPACITOR	SL50V 120pF-J	C 2Q1	154P323020	CHIP CAPACITOR	SL50V 68pF-J
C 2G8	154P322080	CHIP CAPACITOR	SL50V 47pF-J	C 2U0	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
				C 2U2	154P334010	CHIP CERAMIC	CH50V 180P
C 2G9	154P322060	CHIP CAPACITOR	SL50V 39pF-J	C 2U4	154P332070	CHIP CAPACITOR	CH50V 47pF-J
C 2H0	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 2U5	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 2H1	154P332070	CHIP CAPACITOR	CH50V 47pF-J	C 2U7	154P335010	CHIP CAPACITOR	CH50V 470pF-J
C 2H2	154P335070	CHIP CAPACITOR	CH50V 820pF-J	C 2U8	154P334010	CHIP CERAMIC	CH50V 180P
C 2H3	154P334030	CHIP CAPACITOR	CH50V 220pF-J	C 2V0	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 2H4	154P333050	CHIP CAPACITOR	CH50V 100pF-J	C 2W0	154P323060	CHIP CAPACITOR	SL50V 100pF-J
C 2H6	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 2W1	154P322060	CHIP CAPACITOR	SL50V 39pF-J
C 2J0	154P333030	CHIP CAPACITOR	CH50V 82pF-J	C 2X0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 2J1	154P330090	CHIP CAPACITOR	CH50V 8pF-C	C 2X1	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 2J2	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 2007	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 2J3	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2010	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 2J4	154P333090	CHIP CAPACITOR	CH50V 150pF-J	C 2015	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 2J5	154P332070	CHIP CAPACITOR	CH50V 47pF-J	C 2016	154P331050	CHIP CAPACITOR	CH50V 15pF-J
C 2J6	154P333030	CHIP CAPACITOR	CH50V 82pF-J	C 2017	154P332090	CHIP CAPACITOR	CH50V 56pF-J
C 2J8	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2018	154P332070	CHIP CAPACITOR	CH50V 47pF-J
C 2J9	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2021	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 2K0	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 2026	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 2K1	154P332070	CHIP CAPACITOR	CH50V 47pF-J	C 2030	154P326080	CHIP CAPACITOR	SL50V 2200P
C 2K2	154P332090	CHIP CAPACITOR	CH50V 56pF-J	C 2032	154P334070	CHIP CAPACITOR	CH50V 330pF-J
C 2K3	154P335030	CHIP CAPACITOR	CH50V 560pF-J	C 2033	154P327020	CHIP CAPACITOR	SL50V 3300P
C 2K4	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2035	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 2K5	154P334070	CHIP CAPACITOR	CH50V 330pF-J	C 2036	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 2K7	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2037	154P331000	CHIP CAPACITOR	CH50V 9pF-C
C 2K8	154P332030	CHIP CAPACITOR	CH50V 33pF-J	C 2038	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 2K9	141P131030	CHIP CAPACITOR	B50V 2200pF-K	C 2039	154P335090	CHIP CAPACITOR	CH50V 1000pF-J
C 2L0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2041	154P332050	CHIP CAPACITOR	CH50V 39pF-J
C 2L1	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 2042	154P331070	CHIP CAPACITOR	CH50V 18pF-J
C 2L2	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2043	141P130090	CHIP CAPACITOR	B50V 1000pF-K
C 2L3	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 2044	154P331010	CHIP CAPACITOR	CH50V 10pF-C
C 2L4	154P332070	CHIP CAPACITOR	CH50V 47pF-J	C 302	141P135080	CHIP CAPACITOR	F25V 0.1 μ F-Z
C 2L5	154P331030	CHIP CAPACITOR	CH50V 12pF-J	C 303	141P130050	CHIP CAPACITOR	B50V 470pF-K
C 2L6	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 304	141P130050	CHIP CAPACITOR	B50V 470pF-K
C 2L7	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 305	141P135080	CHIP CAPACITOR	F25V 0.1 μ F-Z
C 2L8	154P331010	CHIP CAPACITOR	CH50V 10pF-C	C 307	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
C 2L9	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 308	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
C 2M0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 309	141P131050	CHIP CAPACITOR	B50V 3300pF-K
C 2M1	154P332010	CHIP CAPACITOR	CH50V 27pF-J	C 310	141P135080	CHIP CAPACITOR	F25V 0.1 μ F-Z
C 2M2	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 311	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
C 2M3	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 314	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
C 2M4	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 316	141P135080	CHIP CAPACITOR	F25V 0.1 μ F-Z
C 2M7	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 317	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
C 2M8	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 318	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
C 2M9	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		(HEAD-AMP PCB ASSY)		
C 2N0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 318	154P325040	CHIP CAPACITOR	SL50V 560pF-J
C 2N1	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		(AUDIO PCB ASSY)		
				C 320	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
C 2N2	154P333050	CHIP CAPACITOR	CH50V 100pF-J	C 322	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
C 2N4	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K				
C 2N5	154P332010	CHIP CAPACITOR	CH50V 27pF-J	C 324	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
C 2N8	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K				

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION		SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 327	154P323020	CHIP CAPACITOR	SL50V 68pF-J		C 6C9	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3A1	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6D1	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 3A3	141P130010	CHIP CAPACITOR	B50V 220pF-K		C 6D2	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3A6	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6D4	154P333050	CHIP CAPACITOR	CH50V 100pF-J
					C 6D6	154P330060	CHIP CAPACITOR	CH50V 5pF-C
C 3A7	141P131030	CHIP CAPACITOR	B50V 2200pF-K	[B]				
C 3A7	141P130090	CHIP CAPACITOR	B50V 1000pF-K	[E]	C 6D7	154P335090	CHIP CAPACITOR	CH50V 1000pF-J
C 3A8	154P325000	CHIP CAPACITOR	SL50V 390pF-J	[E]	C 6E0	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 3C9	141P130010	CHIP CAPACITOR	B50V 220pF-K		C 6E6	154P335010	CHIP CAPACITOR	CH50V 470pF-J
C 3D1	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6E7	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
○ C 3D2	141P131040	CHIP CAPACITOR	B50V 2700pF-K		C 6F1	154P335010	CHIP CAPACITOR	CH50V 470pF-J
C 3D3	154P325000	CHIP CAPACITOR	SL50V 390pF-J	[E]				
C 3E9	154P323060	CHIP CAPACITOR	SL50V 100pF-J		C 6F2	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3F1	154P322020	CHIP CAPACITOR	SL50V 27pF-J		C 6F4	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3G0	154P323060	CHIP CAPACITOR	SL50V 100pF-J		C 6F5	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
					C 6F6	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
					C 6F7	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3G2	154P322020	CHIP CAPACITOR	SL50V 27pF-J					
C 3X0	141P130090	CHIP CAPACITOR	B50V 1000pF-K		C 6F8	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 3Y4	141P130090	CHIP CAPACITOR	B50V 1000pF-K		C 6G0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3Y5	141P130090	CHIP CAPACITOR	B50V 1000pF-K		C 6G1	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3Y8	141P130090	CHIP CAPACITOR	B50V 1000pF-K		C 6G2	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
					C 6G3	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3Z2	141P130090	CHIP CAPACITOR	B50V 1000pF-K					
C 3Z3	141P130090	CHIP CAPACITOR	B50V 1000pF-K		C 6G4	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3Z4	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6G7	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3Z5	141P130090	CHIP CAPACITOR	B50V 1000pF-K		C 6G8	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3Z6	141P130090	CHIP CAPACITOR	B50V 1000pF-K		C 6G9	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
					C 6H1	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3Z7	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z					
C 3011	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6H2	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3019	154P323060	CHIP CAPACITOR	SL50V 100pF-J		C 6H4	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3021	154P322080	CHIP CAPACITOR	SL50V 47pF-J		C 6H5	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3022	141P131010	CHIP CAPACITOR	B50V 1500pF-K		C 6H6	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
					C 6H7	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3023	141P131010	CHIP CAPACITOR	B50V 1500pF-K					
C 3383	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6H8	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3384	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6J1	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 3385	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6J3	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3386	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6J8	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
					C 6K0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3398	141P130090	CHIP CAPACITOR	B50V 1000pF-K					
C 3401	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6K3	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 3403	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6K4	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 3463	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z		C 6K5	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6A0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		C 6K6	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
					C 6K8	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6A1	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K					
C 6A2	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K		C 6L0	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 6A4	154P333050	CHIP CAPACITOR	CH50V 100pF-J		C 6L1	154P323060	CHIP CAPACITOR	SL50V 100pF-J
C 6A5	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		C 6L2	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6A6	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		C 6L3	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
					C 6P0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6A8	154P323060	CHIP CAPACITOR	SL50V 100pF-J					
C 6B0	141P130090	CHIP CAPACITOR	B50V 1000pF-K		C 6P1	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6B1	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		C 6P2	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6C1	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		C 6P4	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6C2	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		C 6P5	154P332090	CHIP CAPACITOR	CH50V 56pF-J
					C 6P6	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 6C3	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K					
C 6C4	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		C 6P7	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6C5	154P333050	CHIP CAPACITOR	CH50V 100pF-J		C 6P8	154P332090	CHIP CAPACITOR	CH50V 56pF-J
C 6C6	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		C 6P9	154P324000	CHIP CAPACITOR	SL50V 150pF-J
C 6C7	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K		C 6Q1	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
					C 6Q2	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 603	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 720	154P327060	CHIP CAPACITOR	CH50V 4700pF-J
C 604	154P333070	CHIP CAPACITOR	CH50V 120pF-J	C 723	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 605	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 724	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 606	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 728	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
○ C 607	154P321040	CHIP CAPACITOR	SL50V 12pF-J	C 729	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6S0	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 730	154P332090	CHIP CAPACITOR	CH50V 56pF-J
C 6S1	154P320060	CHIP CAPACITOR	SL50V 4pF-C	C 731	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6T0	154P323080	CHIP CAPACITOR	SL50V 120pF-J	C 732	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6002	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	C 734	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6003	154P333090	CHIP CAPACITOR	CH50V 150pF-J	C 735	154P332090	CHIP CAPACITOR	CH50V 56pF-J
C 6004	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 736	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 6005	154P333090	CHIP CAPACITOR	CH50V 150pF-J	C 738	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6006	154P335090	CHIP CAPACITOR	CH50V 1000pF-J	C 739	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6007	154P333010	CHIP CAPACITOR	CH50V 68pF-J	C 740	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6010	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 741	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6011	141P139010	CHIP CAPACITOR	B25V 0.068 μ F-K	C 742	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6014	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 743	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 6016	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 745	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6017	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 746	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K
C 6020	141P139010	CHIP CAPACITOR	B25V 0.068 μ F-K	C 748	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 6021	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 749	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K
C 6022	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	C 762	154P332070	CHIP CAPACITOR	CH50V 47pF-J
C 6024	154P332090	CHIP CAPACITOR	CH50V 56pF-J	VC6D8	202P109040	TRIMMER CAPACITOR	7.3pF-45pF
C 6025	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	VC6K1	202P109050	TRIMMER CAPACITOR	9.8pF-60pF
C 6026	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	SWITCHES			
C 6027	154P332090	CHIP CAPACITOR	CH50V 56pF-J	S 7A1	431C067010	SLIDE SWITCH	TAPE REMAIN
C 6028	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 7A2	431C067010	SLIDE SWITCH	SYNC
C 6029	154P332090	CHIP CAPACITOR	CH50V 56pF-J	S 7A4	431C067010	SLIDE SWITCH	PRE-ROLL
C 6030	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 7A5	431C067010	SLIDE SWITCH	AUTO REW
C 6031	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 7A6	431C068030	SLIDE SWITCH	TIMER REC
C 6032	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 7C0	431C048010	SLIDE SWITCH	4KEY-DIP-SW
C 6033	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 7C1	431C048010	SLIDE SWITCH	4KEY-DIP-SW
C 6034	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	S 801	431C067010	SLIDE SWITCH	Hi-Fi REC
C 6035	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 802	431C068030	SLIDE SWITCH	AUDIO MONITOR
C 6036	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 803	431C067010	SLIDE SWITCH	Hi-Fi/NORMAL
C 6037	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 804	431C067010	SLIDE SWITCH	TIME CODE
C 6038	154P332090	CHIP CAPACITOR	CH50V 56pF-J	S 805	431C067010	SLIDE SWITCH	INPUT SELECT
C 6039	154P332090	CHIP CAPACITOR	CH50V 56pF-J	S 806	431C067010	SLIDE SWITCH	CNR
C 6040	154P322080	CHIP CAPACITOR	SL50V 47pF-J	S 807	431C068030	SLIDE SWITCH	COLOUR MODE
C 700	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 808	431C067010	SLIDE SWITCH	AUDIO LIMITER
C 701	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 809	431C068030	SLIDE SWITCH	AUDIO DUB
C 702	154P332090	CHIP CAPACITOR	CH50V 56pF-J	S 810	431C067010	SLIDE SWITCH	DOLBY
C 704	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 812	431C067010	SLIDE SWITCH	TAPE SPEED
C 705	141P132010	CHIP CAPACITOR	B50V 0.01 μ F-K	S 813	431C067010	SLIDE SWITCH	REPEAT
C 707	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	○ S 816	432P112030	KEY BOARD SWITCH	COUNTER/REMAIN [B]
C 708	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	○ S 816	432P110050	KEY BOARD SWITCH	COUNTER/REMAIN [E]
C 709	141P136010	CHIP CAPACITOR	F16V 0.47 μ F-Z	○ S 817	432P111020	KEY BOARD SWITCH	PLAY
C 710	141P130090	CHIP CAPACITOR	B50V 1000pF-K	○ S 818	432P110030	KEY BOARD SWITCH	VISS -
C 711	141P136010	CHIP CAPACITOR	F16V 0.47 μ F-Z	○ S 819	432P112060	KEY BOARD SWITCH	JOG SHUTTLE [B]
C 712	141P136010	CHIP CAPACITOR	F16V 0.47 μ F-Z	○ S 819	432P110010	KEY BOARD SWITCH	JOG SHUTTLE [E]
C 713	141P130090	CHIP CAPACITOR	B50V 1000pF-K	○ S 820	432P111080	KEY BOARD SWITCH	REC [B]
C 714	141P136010	CHIP CAPACITOR	F16V 0.47 μ F-Z	○ S 820	432P111010	KEY BOARD SWITCH	REC [E]
C 715	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K				
C 717	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K				

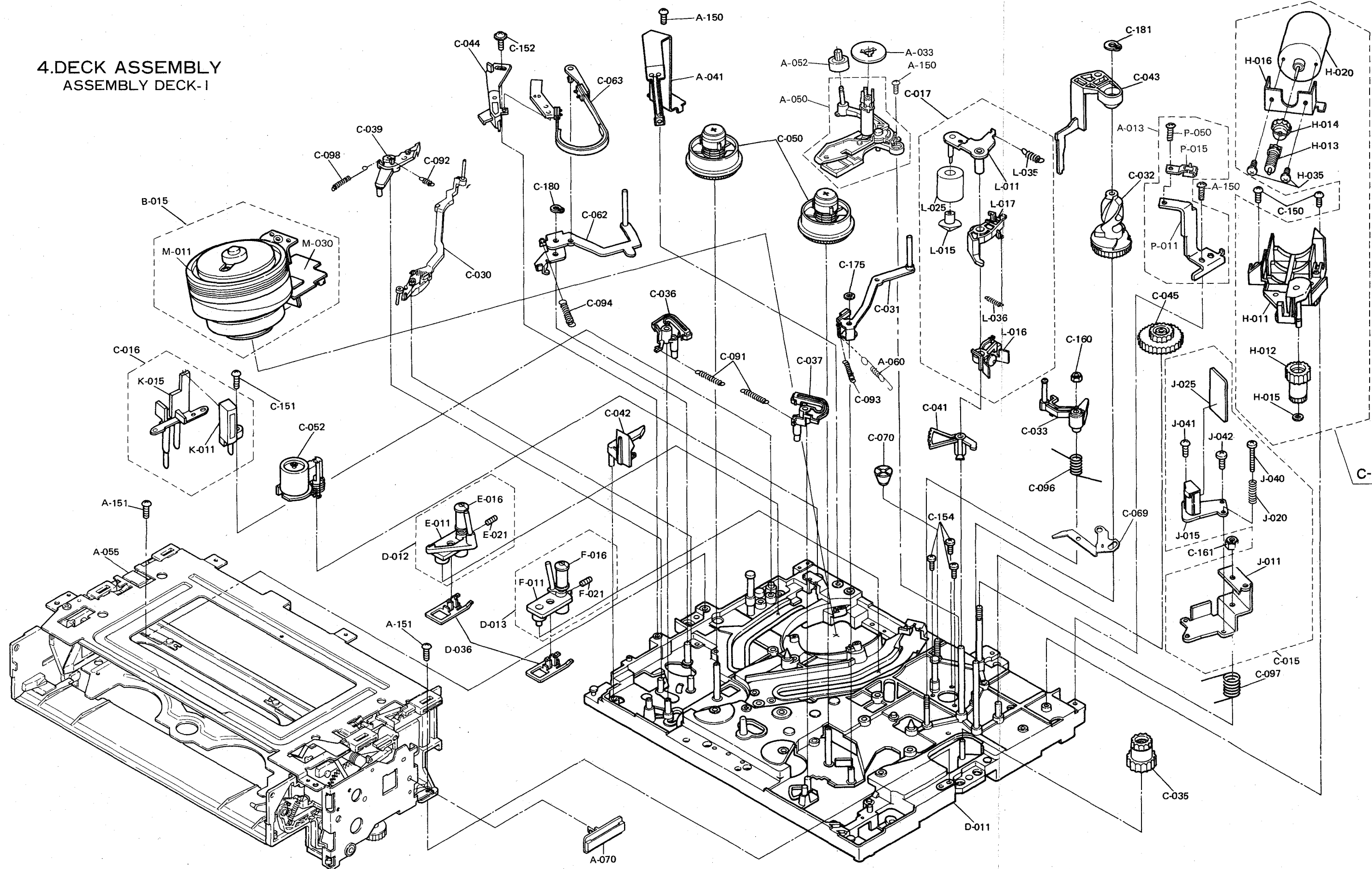
○ : NEW PARTS

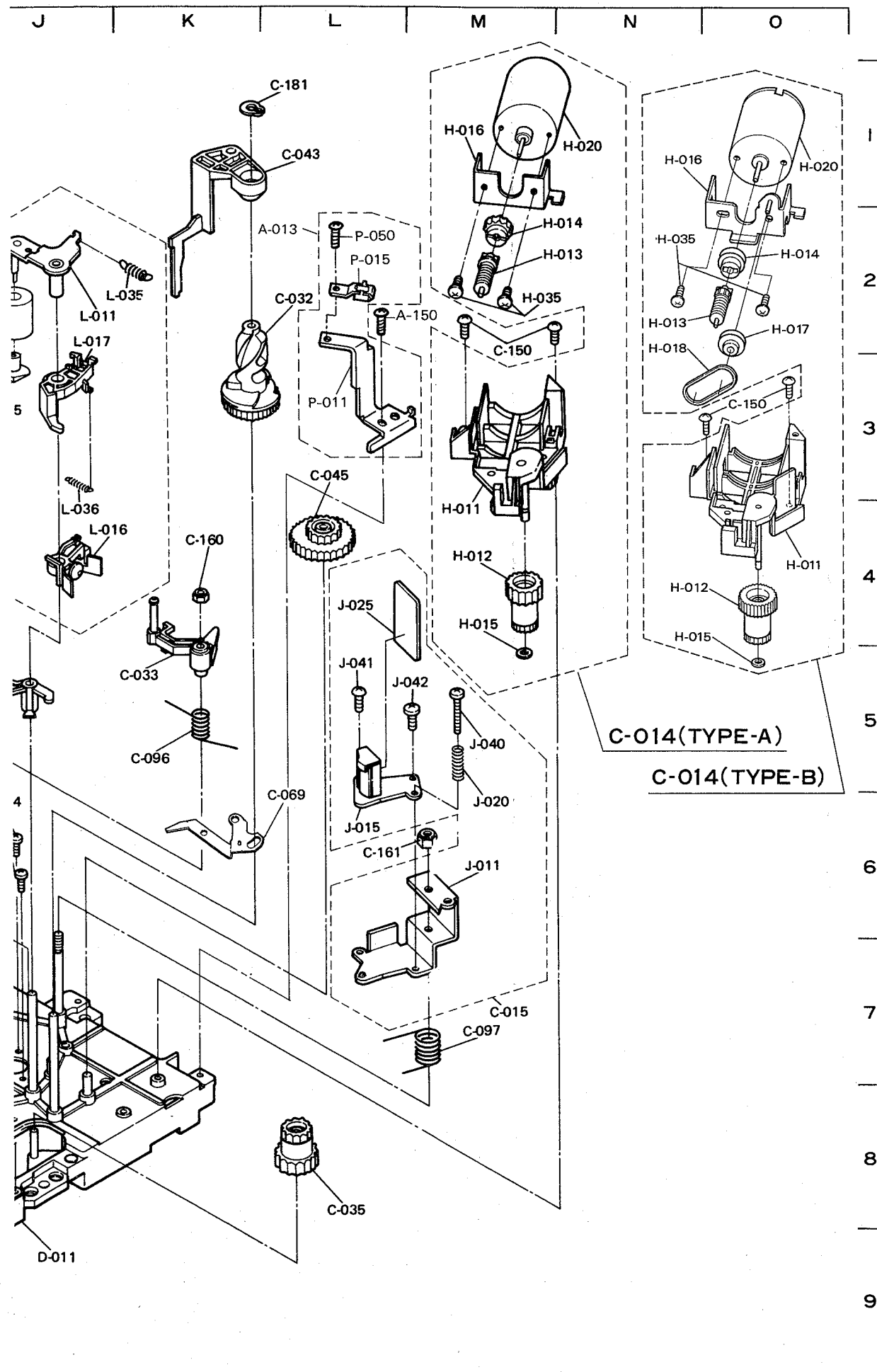
SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION		SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○ S 821	432P111050	KEY BOARD SWITCH	STOP		K 3A1	287P020010	RELAY	MZ12-B DC12V
○ S 822	432P111060	KEY BOARD SWITCH	EJECT		○ K 3A2	287P058010	RELAY	G5A-237PL DC12V
S 823	431C067010	SLIDE SWITCH	MODE LOCK		○ K 3A3	287P058010	RELAY	G5A-237PL DC12V
○ S 824	432P110020	KEY BOARD SWITCH	VISS +		K 3700	287P020010	RELAY	MZ12-B DC12V
○ S 825	432P112010	KEY BOARD SWITCH	COUNTER RESET	[B]	K 3701	287P020010	RELAY	MZ12-B DC12V
○ S 825	432P110050	KEY BOARD SWITCH	COUNTER RESET	[E]	M 470	288P089040	CAPSTAN MOTOR	
○ S 826	432P110010	KEY BOARD SWITCH	AFR		M 570	288P088010	DRUM MOTOR	
○ S 827	432P111040	KEY BOARD SWITCH	REW		M 571	288D025010	LOADING MOTOR	
○ S 828	432P111030	KEY BOARD SWITCH	STILL/PAUSE		○ S 8C8	243C072030	CARD LEAD	11P L120(S8-C8)
○ S 829	432P111040	KEY BOARD SWITCH	FF		○ T 370	460P118010	A/C HEAD	
○ S 831	432P112020	KEY BOARD SWITCH	COUNTER MEMORY	[B]	T 371	460P055030	FE HEAD	
○ S 831	432P110050	KEY BOARD SWITCH	COUNTER MEMORY	[E]	○ V 801	253P083010	TUBE FLUOR	9-MT-99GK
○ S 832	432P112050	KEY BOARD SWITCH	INSERT	[B]	○ V 8001	280P003020	VU METER	Z048-A06
○ S 832	432P110010	KEY BOARD SWITCH	INSERT	[E]	○ V 8002	280P003010	VU METER	Z048-A08
○ S 834	432P111090	KEY BOARD SWITCH	REPEAT	[B]	○ V 8003	280P003010	VU METER	Z048-A08
○ S 834	432P111070	KEY BOARD SWITCH	REPEAT	[E]	X 5001	285P141010	CRYSTAL RESONATOR	4.9152MHz
○ S 835	432P112040	KEY BOARD SWITCH	MONITOR	[B]	X 6C0	285P011010	CRYSTAL RESONATOR	4.43MHz
○ S 835	432P110010	KEY BOARD SWITCH	MONITOR	[E]	X 801	285P063040	CRYSTAL RESONATOR	4.19430MHz
S 836	431C067010	SLIDE SWITCH	S-VHS		Z 570	299P052020	SENSOR-H	CONNECT <CH>L=450
○ S 8001	439P023020	JOG SWITCH	SRGPHJ012A		PRINTED CIRCUIT BOARD ASSY'S			
SW570	439P019010	MODE SELECT SWITCH			○	927B557001	AUDIO PCB ASSY	
SW571	439P020010	LIMIT SWITCH	SPPB-62		○	927B558001	AUDIO-SUB PCB ASSY	
SW572	439P020020	LIMIT SWITCH	SPPB-51		○	927B556001	CONTROL PCB ASSY	
○ S 971	433C020020	SEESAW SWITCH	S2-1 AC120V 3A	[E]	○	928C595004	DECK PCB ASSY	
MISCELLANEOUS					○	927B559001	FUNCTION PCB ASSY	
○	288P094020	FAN MOTOR	MMF-06D120DM-RO		○	928B927018	HEAD-AMP PCB ASSY	
○	246C122020	INLET UNIT			○	928C696002	JACK PCB ASSY	
	451D046010	POWER JACK(3P)	INLET-AC-3P	[E]	○	927B642001	POWER PCB ASSY	
○	246C123020	FUSE	FUSE HOLDER+		○	928C816001	REMOCON PCB ASSY	
○	246C141030	POWER SWITCH UNIT			○	927B555001	SIGNAL PCB ASSY	
○ AJ CJ	243C017070	CARD LEAD	15P (AJ-CJ)		○	928C774001	SWITCH PCB ASSY	
DC CC	243C061020	CARD LEAD	9P L=150(DC-CC)		○	927B641001	TERMINAL PCB ASSY	
DM CM	243C061070	CARD LEAD	21P L150(DM-CM)		○	928C410060	TRANSISTOR PCB ASSY	Q 906
○ D 824	264P602010	LAMP HOUSE	LR-1150MC		○	928C772001	VR PCB ASSY	
○ F 901	283D046090	FUSE	T800MA		○	928C700002	VU PCB ASSY	VU-METER
F 902	283D047040	FUSE	2A-T					
F 903	283D047040	FUSE	2A-T					
F 904	283D047030	FUSE	T1.6A					
○ F 905	283D046090	FUSE	T800MA					
FC7A0	500P005010	FC TIMER						
○ J 7A1	451C114090	PIN JACK						
○ J 7A2	451C114090	PIN JACK						
○ J 7A5	451C114090	PIN JACK						
○ J 7A6	451C114090	PIN JACK						
○ J 7A7	451C114090	PIN JACK						
○ J 7A8	451C114090	PIN JACK						
○ J 7A9	451C155010	PIN JACK(2P)						
J 7B2	449C102010	SOCKET DIN MINI	4P					
J 7B3	449C102010	SOCKET DIN MINI	4P					
○ J 8001	451C043040	HEADPHONE JACK						
○ J 8002	451C043040	HEADPHONE JACK						
○ J 8003	451C043010	HEADPHONE JACK						

[MEMO]

[MEMO]

4.DECK ASSEMBLY ASSEMBLY DECK-I





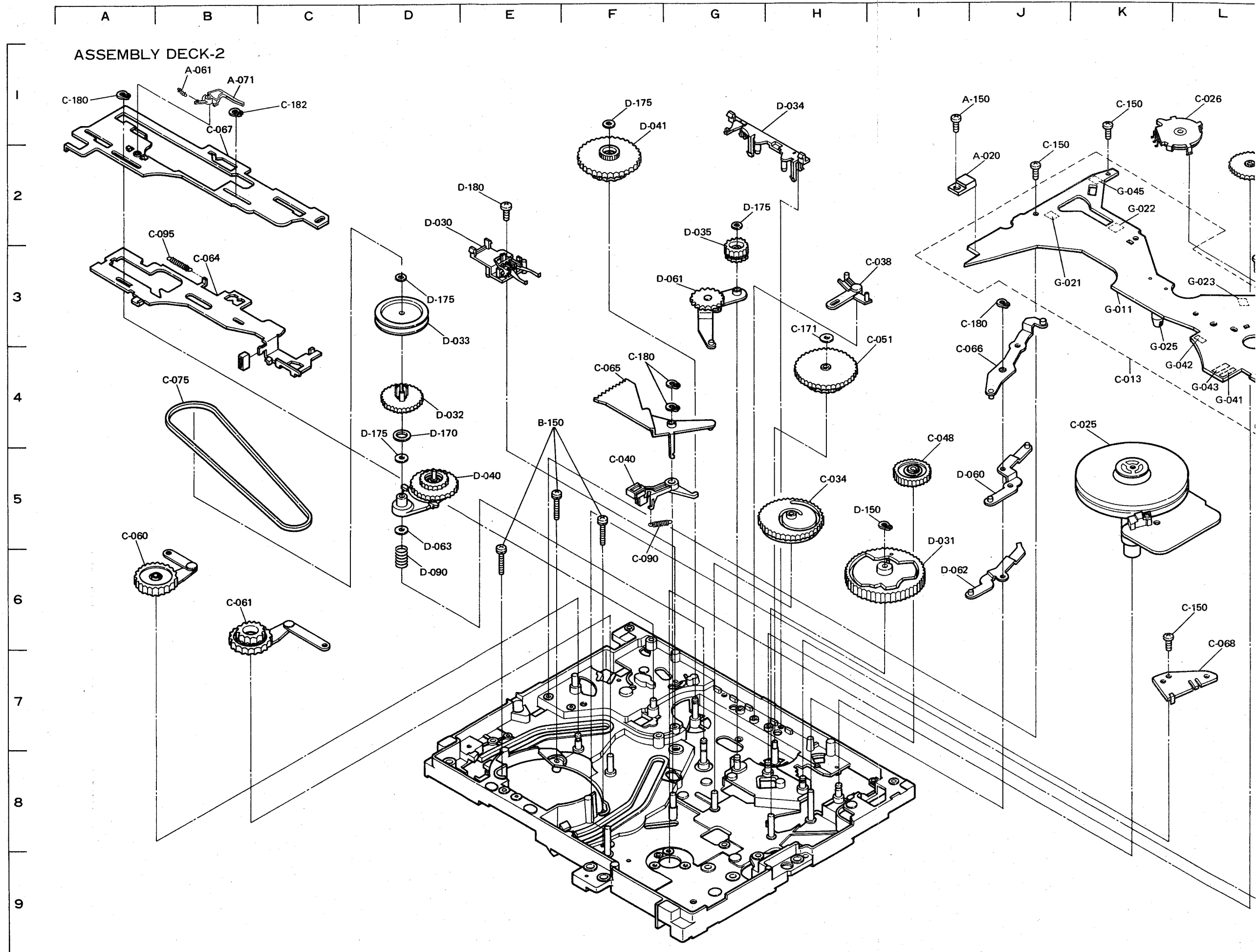
* Settled Service Parts

ITEM	PARTS No.	* ADDRESS	PARTS NAME	DESCRIPTION	Qt.
B-015	948B277002	B-2	ASSY-DRUM		01
M-011	927B592021	B-3	ASSY-UPPER-DRUM		01
M-030	288P088010	C-3	MOTOR-DRUM	M570	01
D-011	948A071020	J-9	ASSY-MAIN-PLATE		01
D-012	948D018070	D-6	ASSY-TAPE-GUIDE-S		01
D-012	948D018080	D-6	ASSY-TAPE-GUIDE-S		01
D-012	948D018090	D-6	ASSY-TAPE-GUIDE-S		01
E-011	635B059010	E-6	TAPE-GUIDE-S		01
E-011	635B059020	E-6	TAPE-GUIDE-S		01
E-011	635B059030	E-6	TAPE-GUIDE-S		01
E-016	522D039010	E-6	GUIDE-ROLLER		01
E-021	669D197020	E-6	SET-SCREW-F	M3×0.5-4	01
D-013	948D019010	E-6	ASSY-TAPE-GUIDE-T		01
D-013	948D019020	E-6	ASSY-TAPE-GUIDE-T		01
D-013	948D019030	E-6	ASSY-TAPE-GUIDE-T		01
F-011	635B060010	F-6	TAPE-GUIDE-T		01
F-011	635B060020	F-6	TAPE-GUIDE-T		01
F-011	635B060030	F-6	TAPE-GUIDE-T		01
F-016	522D031010	F-6	GUIDE-ROLLER		01
F-021	669D197020	F-6	SET-SCREW-F	M3×0.5-4	01
D-036	621D522010	E-7	F-7 SLIDER		02
C-015	928D042001	M-7	ASSY-AC-HEAD		01
J-011	592C760010	M-6	ARM-AC		01
J-015	460P118010	L-6	HEAD-AC	T370	01
J-020	570D593010	M-6	SPRING-AC		01
J-025	215C550010	L-5	PWB-AC-ST		01
J-040	650P261040	M-5	SCREW-F-FE-PAN	M2.6×0.45-14	01
J-041	669D227010	L-5	SCREW-TS	M2.6×6	01
J-042	669D206030	L-5	SCREW		01
C-016	928D033020	B-4	ASSY-FE-HEAD		01
K-011	460P055030	B-5	HEAD-FE	T371	01
K-015	641C870010	B-4	HOLDER-FE		01
C-017	948D020010	I-1	ASSY-ARM-PINCH		01
L-011	591B536010	J-2	ARM-PINCH		01
L-015	621D523010	J-3	CAP-ROLLER		01
L-016	641C797010	J-4	LEVER-CAM-PINCH		01
L-017	641C798010	I-3	LEVER-ARM-PINCH		01
L-025	522D174010	J-2	ROLLER-PINCH		01
L-035	572D314010	J-2	SPRING-PINCH		01
L-036	572D315010	J-4	SPRING-CAM-PINCH		01
C-030	641B368010	E-3	ARM-TENS-REG-S2		01
C-031	591B551020	I-3	ARM-TENS-REG-T		01
C-032	641B314020	L-3	CAM-PINCH		01
C-033	635B068010	K-5	ARM-TU-G		01
C-035	641C782010	L-8	GEAR-JOINT		01
C-036	641C791010	G-4	BRAKE-MAIN-S2		01
C-037	641C792010	H-4	BRAKE-MAIN-T2		01
C-039	641C796010	D-2	LEVER-TENS		01
C-041	641C991010	J-5	ARM-GEAR-TU-G2		01
C-042	641C804010	F-5	LEVER-REC-SAFETY		01
C-043	641C806010	L-1	CAP-ARM-PINCH		01
C-044	641C861010	E-1	HOLDER-T-BAND		01
C-045	621D509010	L-3	GEAR-1		01
C-050	522C076020	H-2	UNIT-REEL-DISK		02
C-052	641B319010	C-5	UNIT-IMP-ROLLER		01
C-062	591B547010	F-3	ARM-TENSION		01
C-063	591B552010	F-1	BELT-TENS-BRAKE		01
C-069	592C930010	L-6	LEVER-TENS-TU		01
C-070	635D063010	I-5	NUT-TAPER		01

* Settled Service Parts

ITEM	PARTS No.	* ADDRESS	PARTS NAME	DESCRIPTION	Qt.
C-091	572D309010	G-4	SPRING-M-B		02
C-092	572D391010	E-2	SPRING-TENS-REG-S2		01
C-093	572D390010	I-4	SPRING-TENS-REG-T2		01
C-094	572D312010	F-4	SPRING-TENS		01
C-096	572D317010	K-5	SPRING-TU-G		01
C-097	572D318010	M-7	SPRING-ARM-A/C		01
C-098	572D328010	D-2	SPRING-REC-SAFETY		01
C-150	669D227010	M-2	SCREW-TS	M2.6×6	02
C-151	669D227030	C-5	SCREW-TS	M2.6×10	01
C-152	669D228010	E-1	SCREW-TS-SEMS	M2.6×6	01
C-154	669D285040	J-6	SCREW-TB-PAN	M2.6×8	03
C-160	674D081020	K-4	NUT-NYLON		01
C-161	674D100010	L-6	NUT-NYLON-S	M4×0.7	01
C-175	552C007030	I-3	CUT-WASHER	2.5	01
C-180	685C009010	F-2	GRIP-RING		01
C-181	685C009020	L-1	GRIP-RING		01
A-013	928D037002	L-2	ASSY-H/S-G		01
P-011	592C953010	L-2	HOLDER-H/S		01
P-015	299P052030	L-2	SENSOR-H	Z570	01
P-050	669D227090	L-2	SCREW-TS	M2.6×4	01
A-041	299C027010	G-1	BRUSH		01
A-033	596D256020	I-1	FLYWHEEL-IMP		01
A-050	641B439020	H-1	UNIT-IMP-T2		01
A-052	621C033010	H-1	UNIT-CLE-ROLLER		01
A-055	590A256010	A-6	UNIT-F/L-F		01
A-060	572D401010	I-4	SPRING-RS		01
A-070	641C906010	F-9	HOLDER-CARD		01
A-150	669D227010	G-1	SCREW-TS	M2.6×6	02
A-151	669D227020	B-5	SCREW-TS	M2.6×8	02
TYPE-A					
C-014	928D031010	N-5	ASSY-LOAD-MOTOR		01
H-011	641B313010	M-4	HOLDER-MOTOR		01
H-012	641C783010	M-4	GEAR-WHEEL		01
H-013	641C801010	M-2	GEAR-WORM		01
H-014	621D525010	M-2	CUPLING		01
H-015	552C007030	M-4	CUT-WASHER	2.5	01
H-016	596D157010	M-1	PLATE-HOLDER-M		01
H-020	288D025010	N-1	MOTOR-LOADING	M571	01
H-035	650P300030	M-2	SCREW-F-FE-PAN	M3×0.5-3	02
TYPE-B					
C-014	928D031010	N-5	ASSY-LOAD-MOTOR		01
H-011	641B313010	O-4	HOLDER-MOTOR		01
H-012	641C783010	N-4	GEAR-WHEEL		01
H-013	641C801010	N-2	GEAR-WORM		01
H-014	621D784010	O-2	CUPLING-2		01
H-015	552C007030	N-4	CUT-WASHER	2.5	01
H-016	593C059010	N-1	PLATE-HOLDER-M2		01
H-017	621D793010	O-2	PULLEY-L		01
H-018	521D074010	N-2	BELT-LM		01
H-020	288D025010	O-1	MOTOR-LOADING	M571	01
H-035	650P300030	N-2	SCREW-F-FE-PAN	M3×0.5-3	02

ASSEMBLY DECK-2



A B C D E F G H I J K

I

2

3

4

5

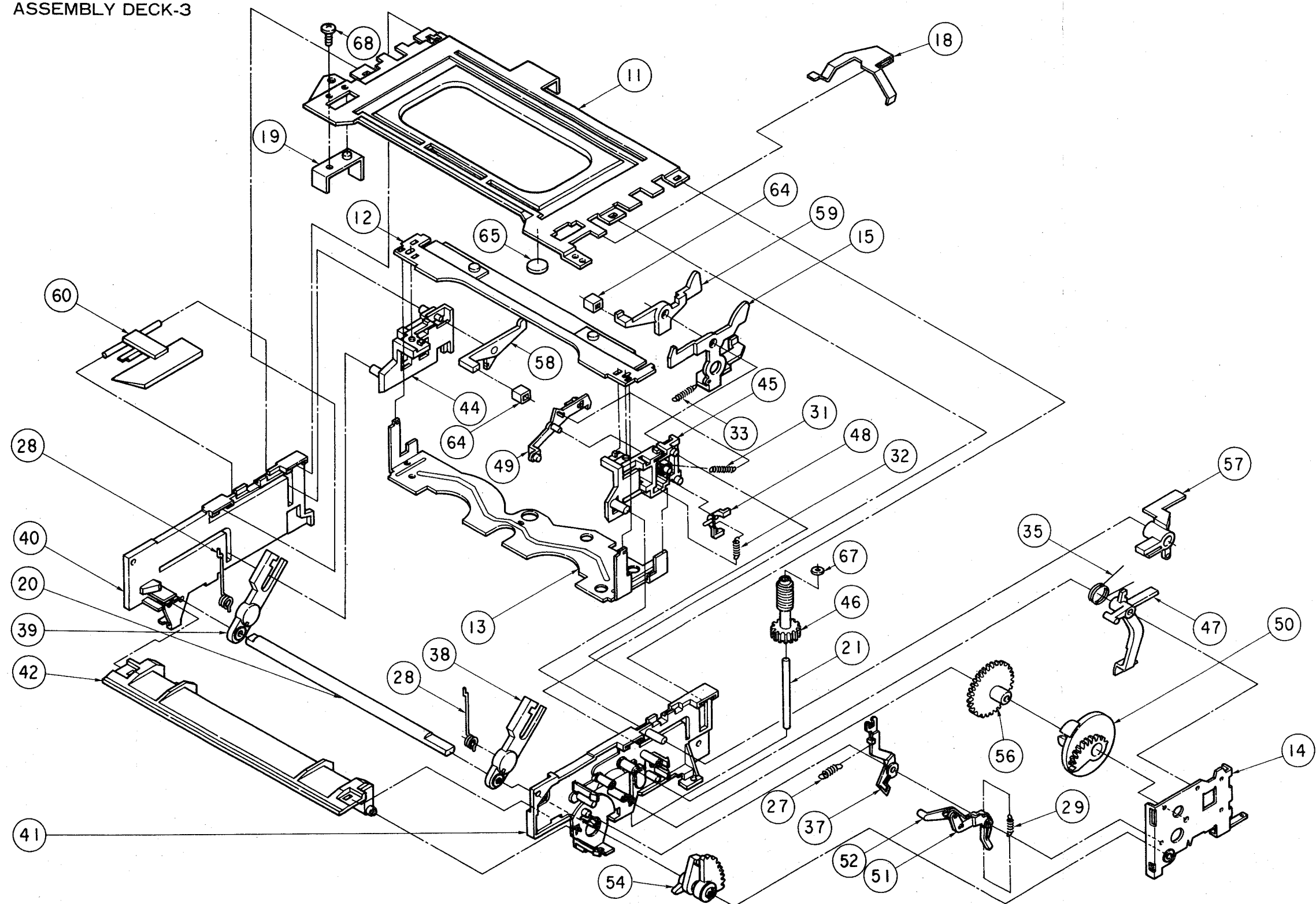
6

7

8

9

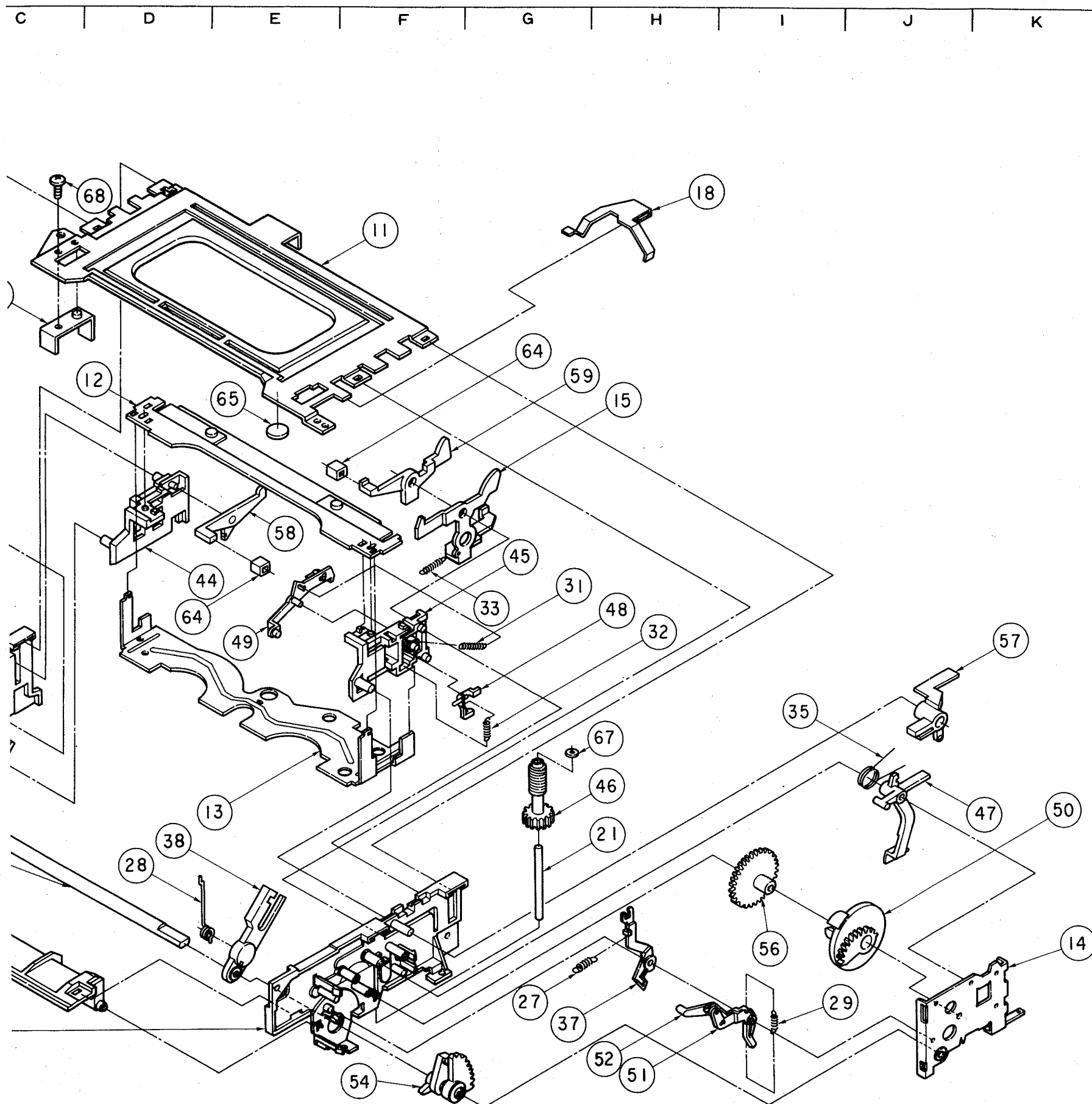
ASSEMBLY DECK-3



* Sett

ITEM

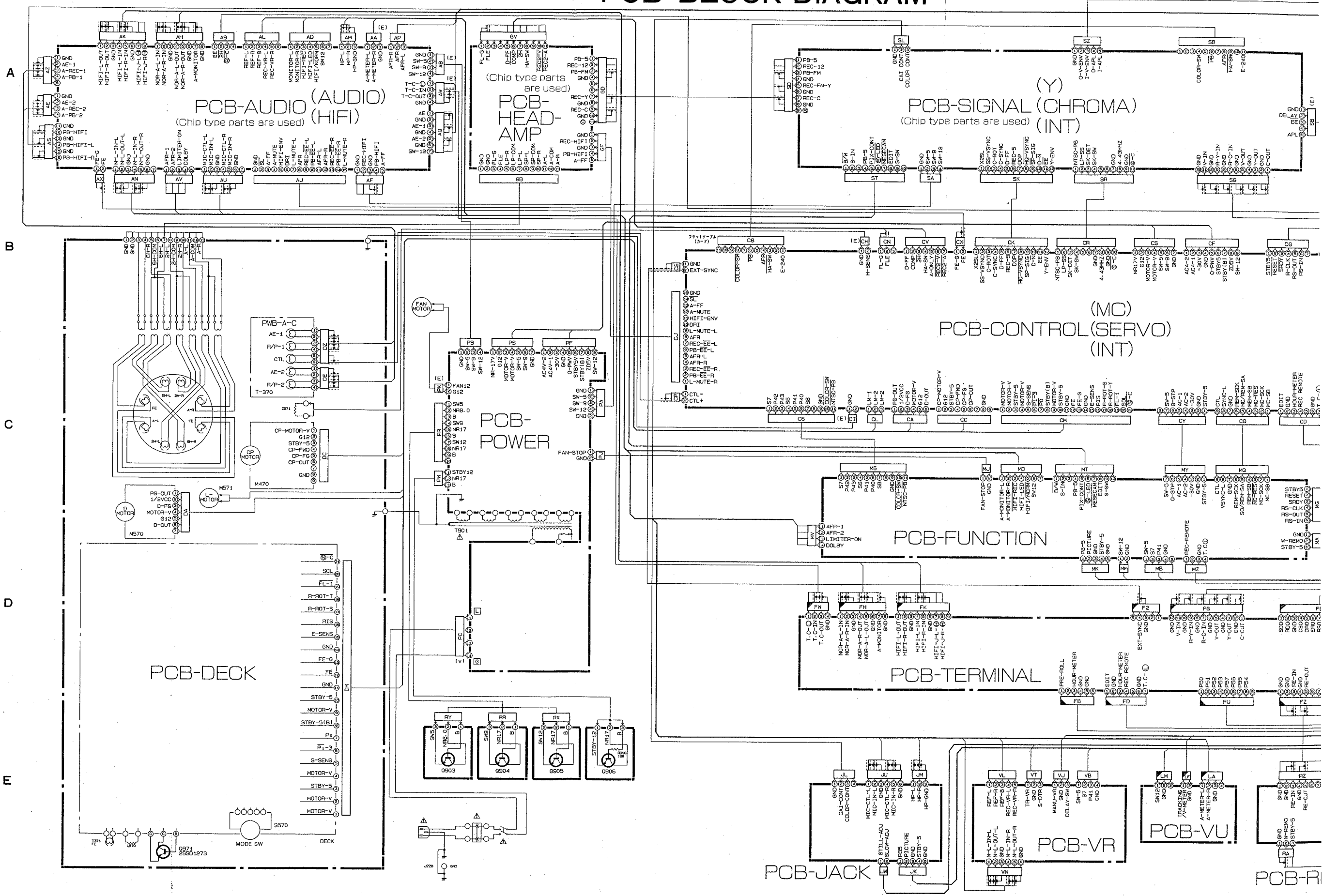
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29
- 30
- 31
- 32
- 33
- 34
- 35
- 36
- 37
- 38
- 39
- 40
- 41
- 42
- 43
- 44
- 45
- 46
- 47
- 48
- 49
- 50
- 51
- 52
- 53
- 54
- 55
- 56
- 57
- 58
- 59
- 60
- 61
- 62
- 63
- 64
- 65
- 66
- 67
- 68

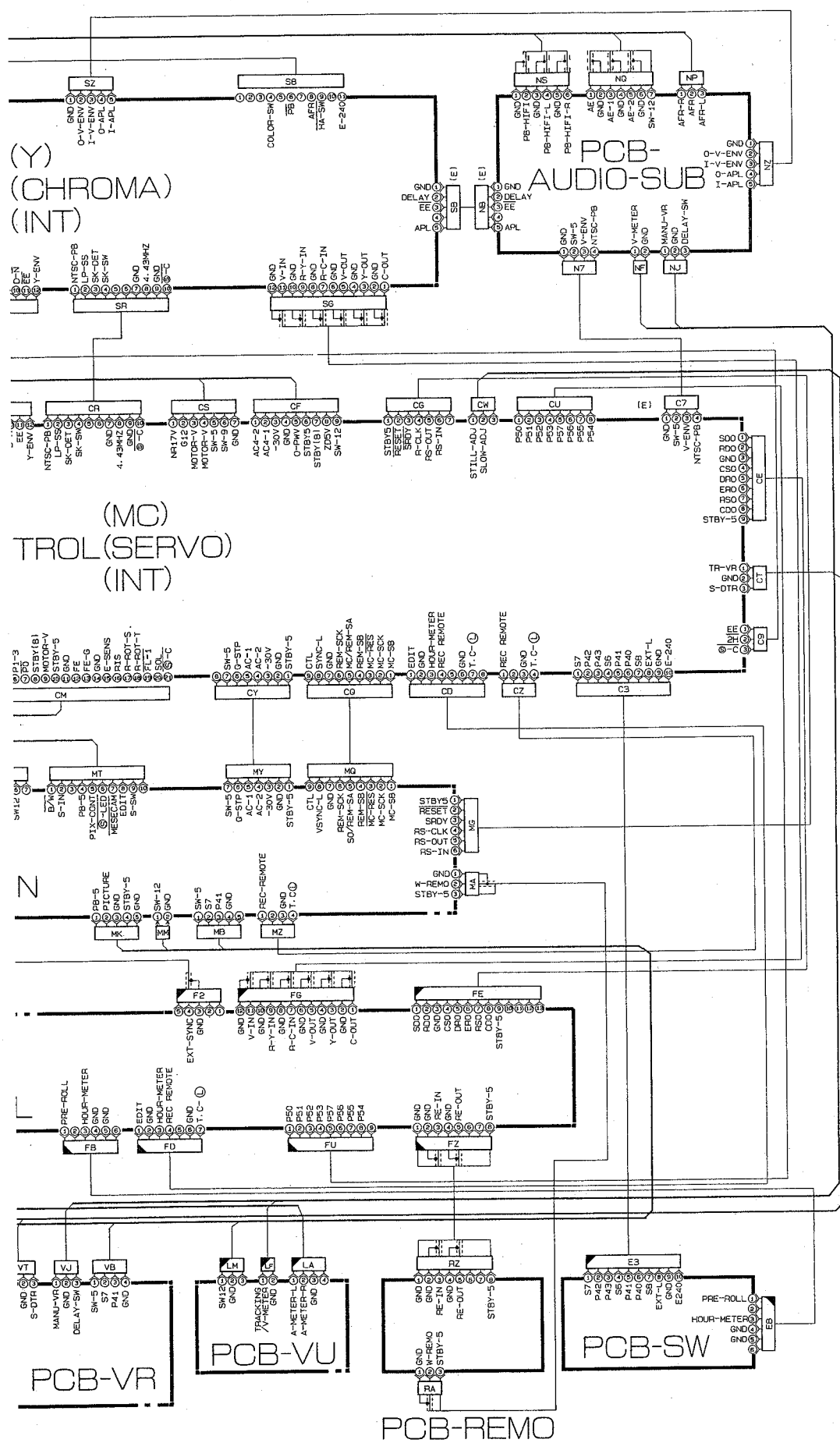


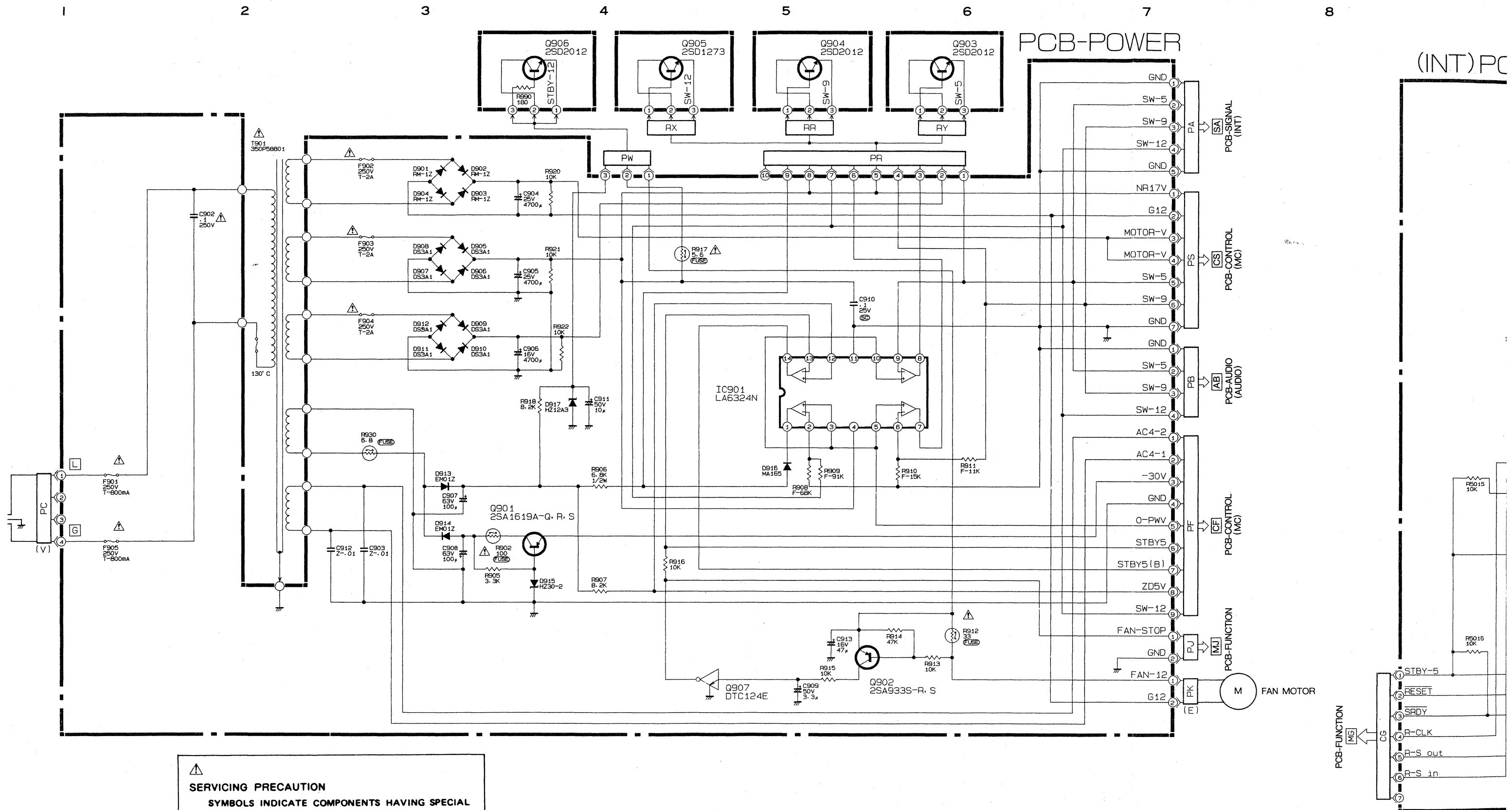
* Settled Service Parts

ITEM	PARTS No.	* ADDRESS	PARTS NAME	DESCRIPTION	Qt.
11	591B545010	F-2	PLATE-ROOF		01
12	592C758010	D-3	PLATE-UPPER		01
13	591B546010	E-7	PLATE-BOTTOM		01
14	591B542010	K-8	PLATE-SIDE-TU		01
15	592C851010	H-3	LEVER-LOCK-FL		01
18	596D150010	H-2	PLATE-EARTH		01
19	596D217010	C-3	PLATE-GUARD		01
20	631D134010	A-6	SHAFT-FL		01
21	631D135010	H-7	SHAFT-WORM		01
27	572D300010	G-8	SPRING-FL-DOOR		01
28	572D301010	A-5	D-7	SPRING-FL	02
29	(not used)	J-8			
31	572D304010	G-5		SPRING-OPENER-LID	01
32	572D305010	H-5		SPRING-JUT-FL	01
33	572D380010	G-5		SPRING-LEVER-LOCK	01
35	572D367010	I-6	D-7	SPRING-LEVER-SW	01
37	621D512010	G-8		ARM-FL-DOOR	01
38	641B315010	D-7		ARM-FL	01
39	641B315020	A-7		ARM-FL	01
40	641A110010	A-6		HOLDER-SIDE-SP	01
41	641A109010	A-8	D-7	HOLDER-SIDE-TU	01
42	641B306010	A-7		GUIDE-INSERT	01
44	641B309010	D-5		HOUSING-CASSETTE-SP	01
45	641B307010	G-5		HOUSING-CASSETTE-TU	01
46	621D513010	H-6		GEAR-WORM-FL	01
47	621D514010	K-7	D-7	LEVER-SW-FL	01
48	621D515010	H-5		JUT	01
49	641C794010	E-5		OPENER-LID-CAS	01
50	641C793010	K-7		GEAR-DRIVE	01
51	(not used)				
52	(not used)		D-7		
54	641C858010	F-9		ARM-LOCK	01
56	641C814010	I-8		GEAR-W-H-F/L	01
57	641C857010	K-5		LEVER-PICK-CAS	01
58	621D585010	E-4		LEVER-CAS-SP	01
59	621D586010	G-3	G-3	LEVER-CAS-TU	01
60	641C878010	A-4		STOPPER-SP-FL	01
64	642D494010	D-5		RUBBER-FL	02
65	640D644010	E-3		CUSHION	01
67	552C001040	H-6		WASHER-THRUST	3 TO. 5
68	-----	D-2		SCREW	2. 6-5

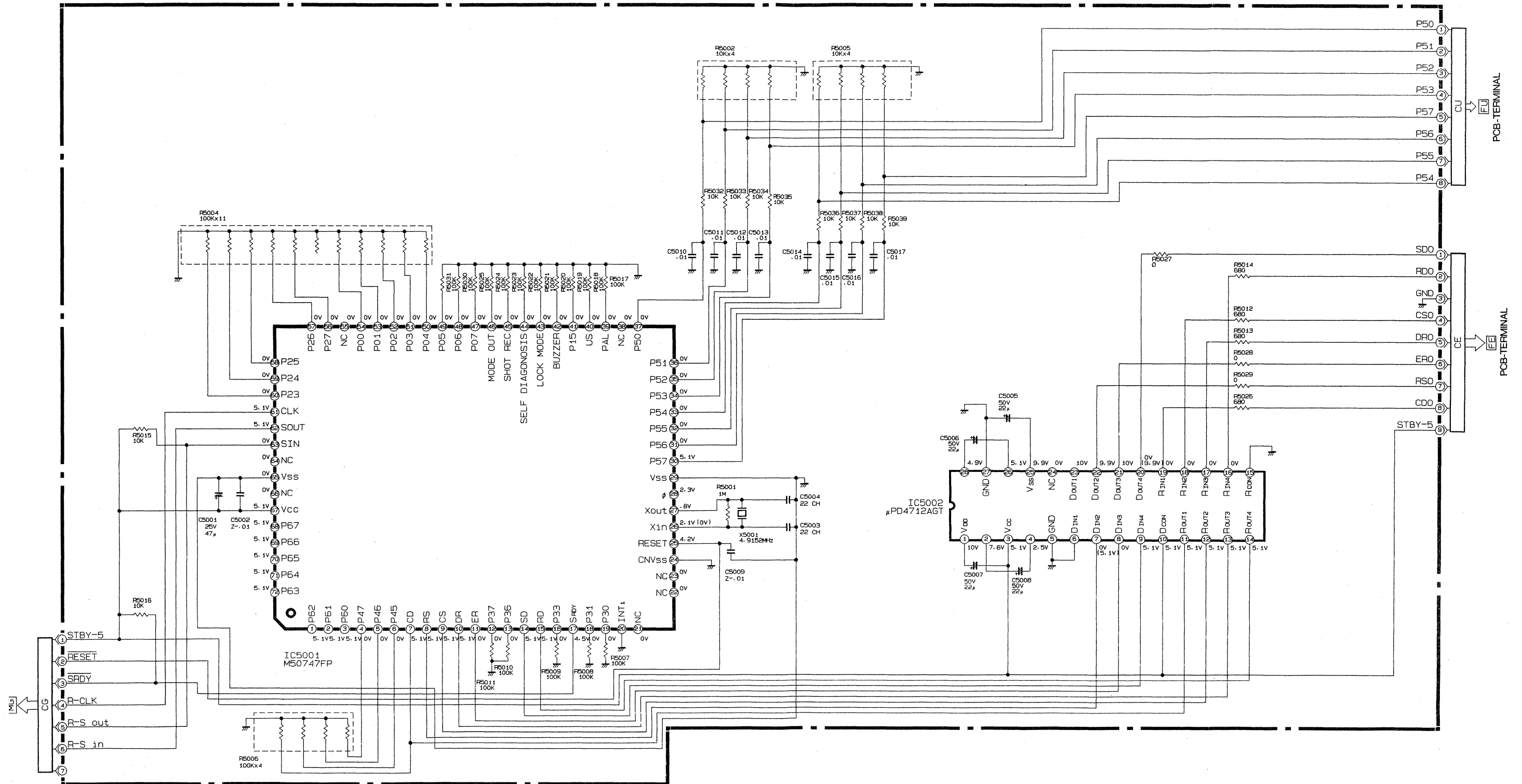
PCB-BLOCK DIAGRAM

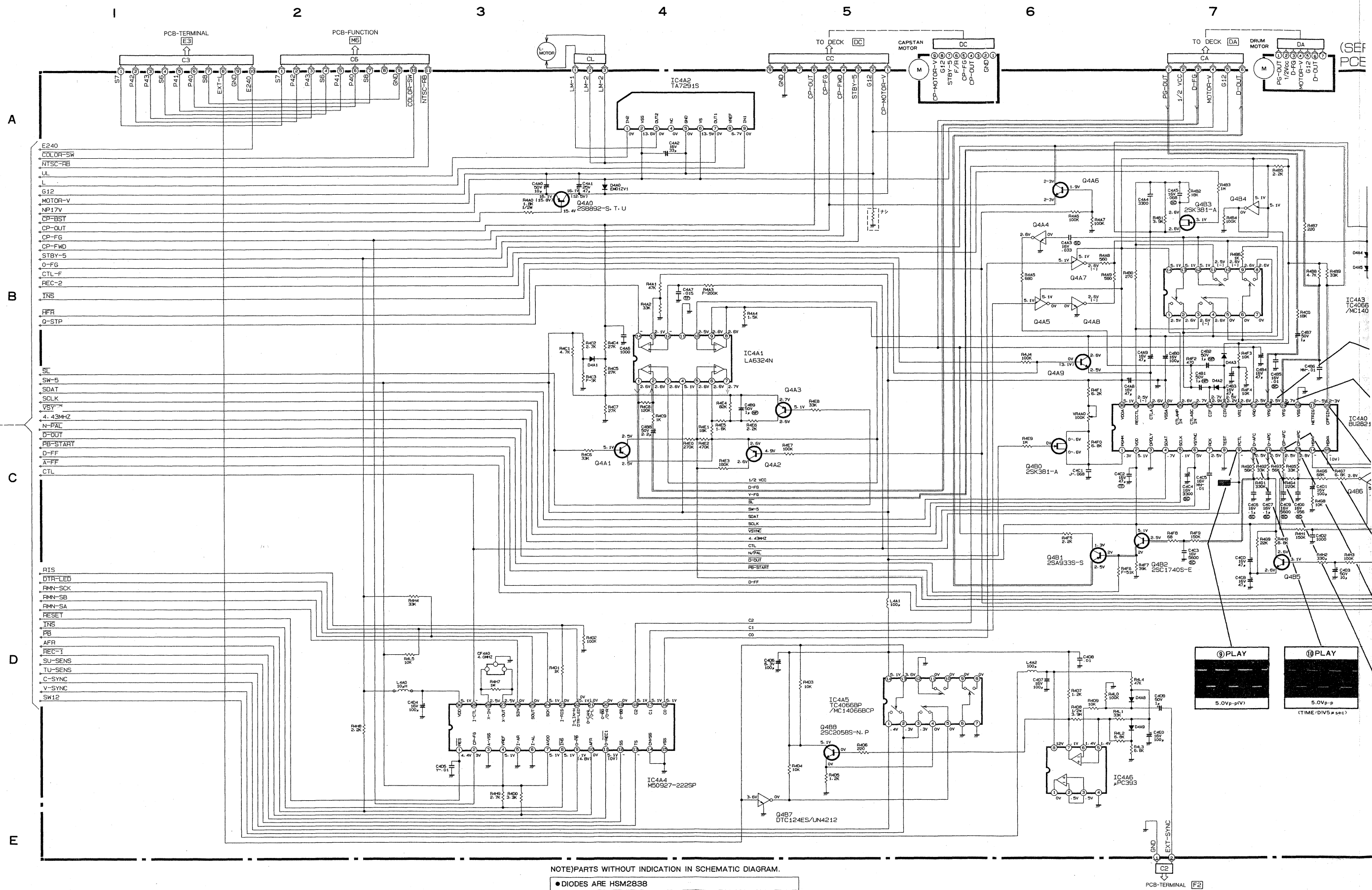




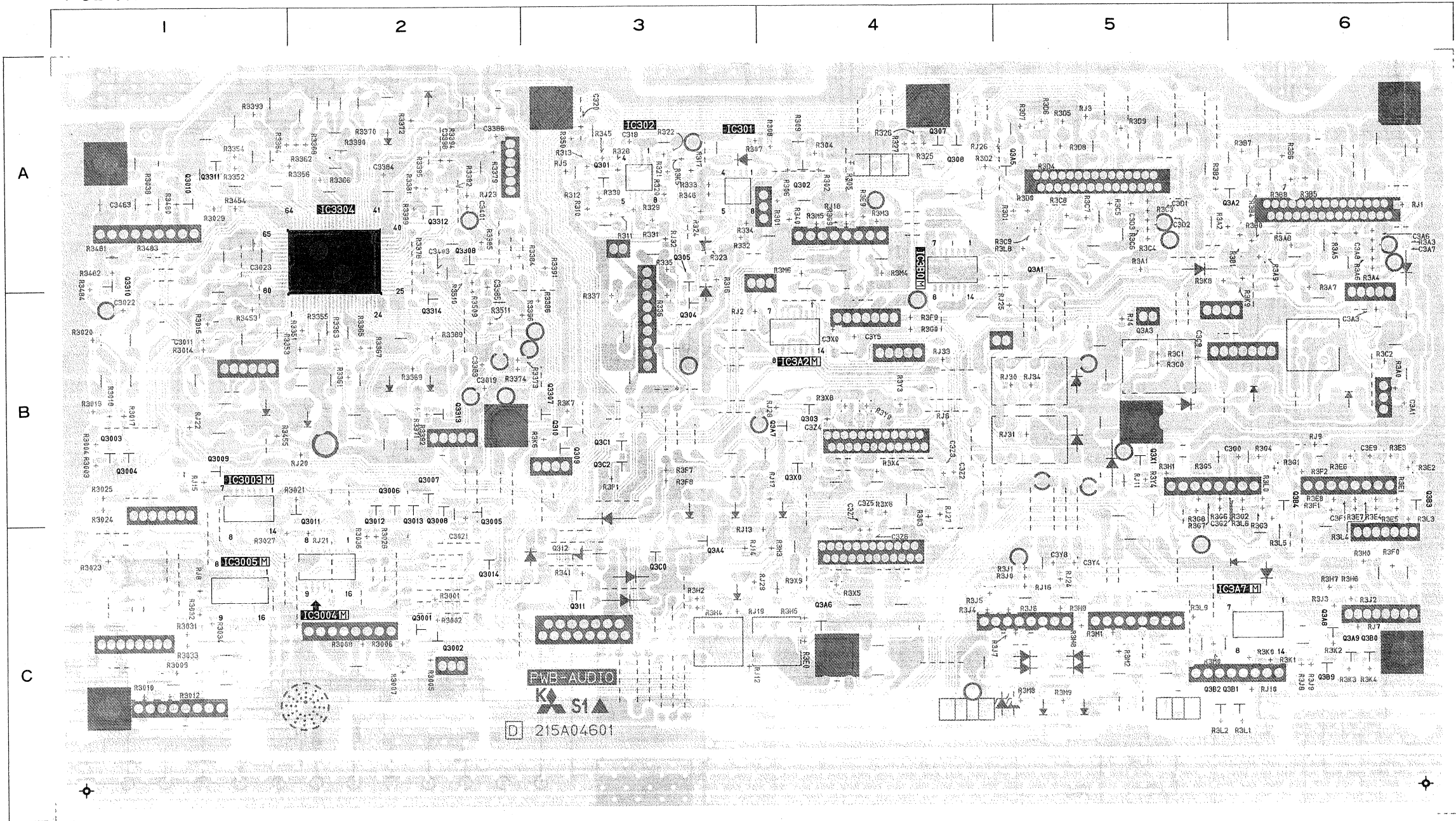


(INT)PCB-CONTROL





PCB AUDIO



PCB AUDIO

SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
C3011	B - 1	Q3012	B - 2	R3020	
C3019	B - 2	Q3013	B - 2	R3021	
C3021	C - 2	Q3014	C - 2	R3023	
C3022	B - 1	Q301	A - 3	R3024	
C3023	A - 1	Q302	A - 4	R3025	
C318	A - 3	Q303	B - 4	R3027	
C320	A - 3	Q304	B - 3	R3028	
C3383	B - 2	Q305	A - 3	R3029	
C3384	A - 2	Q307	A - 4	R302	
C3385	A - 2	Q308	A - 4	R3031	
C3386	A - 2	Q309	B - 3	R3032	
C3398	A - 2	Q310	B - 3	R3033	
C3401	A - 2	Q311	C - 3	R3034	
C3403	A - 2	Q312	C - 3	R3036	
C3463	A - 1	Q3307	B - 3	R3038	
C3A1	B - 6	Q3308	A - 2	R303	
C3A3	B - 6	Q3310	A - 1	R304	
C3A6	A - 6	Q3312	A - 2	R305	
C3A7	A - 6	Q3313	B - 2	R306	
C3A8	A - 6	Q3314	B - 2	R307	
C3C9	B - 5	Q3A1	A - 5	R3084	
C3D1	A - 5	Q3A2	A - 6	R308	
C3D2	A - 5	Q3A3	B - 5	R309	
C3D3	A - 5	Q3A4	C - 3	R310	
C3E9	B - 6	Q3A5	A - 5	R311	
C3F1	B - 6	Q3A6	C - 4	R312	
C3G0	B - 6	Q3A7	B - 4	R313	
C3G2	B - 5	Q3A8	C - 6	R316	
C3X0	B - 4	Q3A9	C - 6	R317	
C3Y4	C - 5	Q3B0	C - 6	R320	
C3Y5	B - 4	Q3B1	C - 5	R321	
C3Y8	C - 5	Q3B2	C - 5	R322	
C3Z2	B - 4	Q3B3	B - 6	R323	
C3Z3	B - 4	Q3B4	B - 6	R324	
C3Z4	B - 4	Q3B9	C - 6	R325	
C3Z5	B - 4	Q3C0	C - 3	R326	
C3Z6	C - 4	Q3C1	B - 3	R327	
C3Z7	C - 4	Q3C2	B - 3	R328	
		Q3J7	B - 3	R329	
IC3003	B - 1	Q3K6	B - 3	R330	
IC3004	C - 2	Q3X0	B - 4	R331	
IC3005	C - 1	Q3X1	B - 5	R332	
IC301	A - 3			R333	
IC302	A - 3	R2G3	B - 6	R334	
IC3304	A - 2	R3001	C - 2	R3351	
IC3A7	C - 6	R3002	C - 2	R3352	
IC3B0	A - 4	R3003	B - 1	R3353	
		R3004	B - 1	R3354	
Q3001	C - 2	R3005	C - 2	R3355	
Q3002	C - 2	R3006	C - 2	R3356	
Q3003	B - 1	R3007	C - 2	R335	
Q3004	B - 1	R3008	C - 2	R3361	
Q3005	B - 2	R3009	C - 1	R3362	
Q3006	B - 2	R3010	C - 1	R3363	
Q3007	B - 2	R3012	C - 1	R3364	
Q3008	B - 2	R3014	B - 1	R3365	
Q3009	B - 1	R3015	B - 1	R3366	
Q3010	A - 1	R3018	B - 1	R3367	
Q3011	A - 1	R3019	B - 1	R3368	
Q3011	B - 2	R301	A - 4	R3369	

SYMBOL NO.	ADDRESS
C3011	B - 1
C3019	B - 2
C3021	C - 2
C3022	B - 1
C3023	A - 1
C318	A - 3
C320	A - 3
C3383	B - 2
C3384	A - 2
C3385	A - 2
C3386	A - 2
C3398	A - 2
C3401	A - 2
C3403	A - 2
C3463	A - 1
C3A1	B - 6
C3A3	B - 6
C3A6	A - 6
C3A7	A - 6
C3A8	A - 6
C3C9	B - 5
C3D1	A - 5
C3D2	A - 5
C3D3	A - 5
C3E9	B - 6
C3F1	B - 6
C3G0	B - 6
C3G2	B - 5
C3X0	B - 4
C3Y4	C - 5
C3Y5	B - 4
C3Y8	C - 5
C3Z2	B - 4
C3Z3	B - 4
C3Z4	B - 4
C3Z5	B - 4
C3Z6	C - 4
C3Z7	C - 4
IC3003	B - 1
IC3004	C - 2
IC3005	C - 1
IC301	A - 3
IC302	A - 3
IC3304	A - 2
IC3A7	C - 6
IC3B0	A - 4
Q3001	C - 2
Q3002	C - 2
Q3003	B - 1
Q3004	B - 1
Q3005	B - 2
Q3006	B - 2
Q3007	B - 2
Q3008	B - 2
Q3009	B - 1
Q3010	A - 1
Q3011	A - 1
Q3011	B - 2

SYMBOL NO.	ADDRESS
Q3012	B - 2
Q3013	B - 2
Q3014	C - 2
Q301	A - 3
Q302	A - 4
Q303	B - 4
Q304	B - 3
Q305	A - 3
Q307	A - 4
Q308	A - 4
Q309	B - 3
Q310	B - 3
Q311	C - 3
Q312	C - 3
Q3307	B - 3
Q3308	A - 2
Q3310	A - 1
Q3312	A - 2
Q3313	B - 2
Q3314	B - 2
Q3A1	A - 5
Q3A2	A - 6
Q3A3	B - 5
Q3A4	C - 3
Q3A5	A - 5
Q3A6	C - 4
Q3A7	B - 4
Q3A8	C - 6
Q3A9	C - 6
Q3B0	C - 6
Q3B1	C - 5
Q3B2	C - 5
Q3B3	B - 6
Q3B4	B - 6
Q3B9	C - 6
Q3C0	C - 3
Q3C1	B - 3
Q3C2	B - 3
Q3J7	B - 3
Q3K6	B - 3
Q3X0	B - 4
Q3X1	B - 5
R2G3	B - 6
R3001	C - 2
R3002	C - 2
R3003	B - 1
R3004	B - 1
R3005	C - 2
R3006	C - 2
R3007	C - 2
R3008	C - 2
R3009	C - 1
R3010	C - 1
R3012	C - 1
R3014	B - 1
R3015	B - 1
R3018	B - 1
R3019	B - 1
R301	A - 4

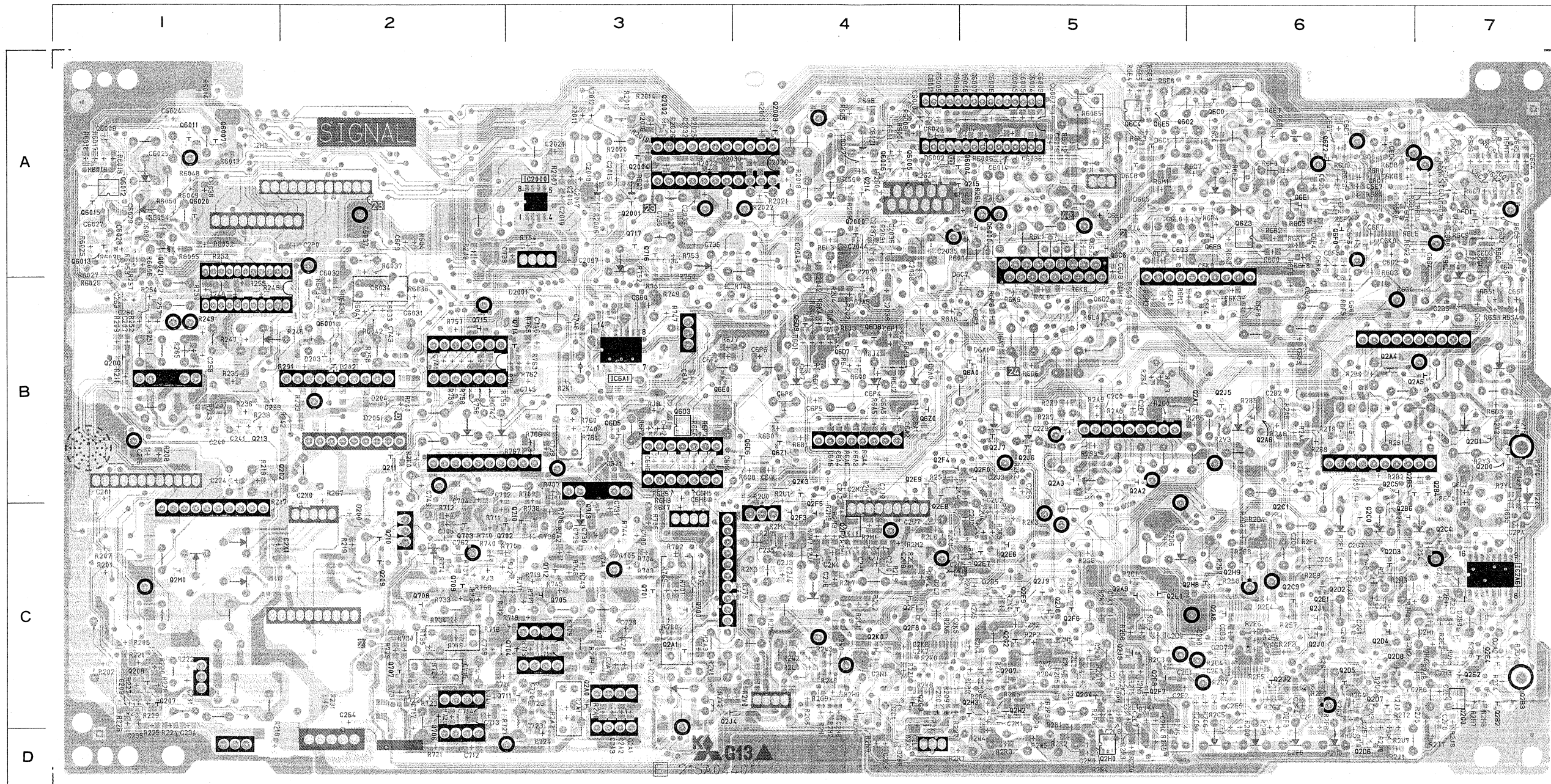
SYMBOL NO.	ADDRESS
R3020	B - 1
R3021	B - 2
R3023	C - 1
R3024	B - 1
R3025	B - 1
R3027	C - 1
R3028	C - 2
R3029	A - 1
R302	A - 4
R3031	C - 1
R3032	C - 1
R3033	C - 1
R3034	C - 1
R3036	C - 2
R3038	A - 1
R303	B - 4
R304	A - 4
R305	A - 4
R306	A - 4
R307	A - 4
R3084	A - 1
R308	A - 4
R309	A - 4
R310	A - 3
R311	A - 3
R312	A - 3
R313	A - 3
R316	A - 3
R317	A - 3
R320	A - 3
R321	A - 3
R322	A - 3
R323	A - 3
R324	A - 3
R325	A - 4
R326	A - 4
R327	A - 4
R328	A - 3
R329	A - 3
R330	A - 3
R331	A - 3
R332	A - 3
R333	A - 3
R334	A - 3
R3351	B - 2
R3352	A - 1
R3353	B - 2
R3354	A - 1
R3355	B - 2
R3356	A - 2
R335	A - 3
R3361	B - 2
R3362	A - 2
R3363	B - 2
R3364	A - 2
R3365	B - 2
R3366	A - 2
R3367	B - 2
R3368	A - 2
R3369	B - 2

SYMBOL NO.	ADDRESS
R336	B - 3
R3370	A - 2
R3371	B - 2
R3372	A - 2
R3373	B - 2
R3374	B - 2
R3378	A - 2
R3379	A - 2
R337	B - 3
R3382	A - 2
R3384	A - 3
R3385	A - 2
R3386	B - 3
R3389	A - 2
R3389	B - 2
R3390	A - 2
R3391	A - 3
R3392	B - 2
R3393	A - 1
R3394	A - 2
R3395	A - 2
R3396	B - 3
R3399	A - 2
R340	A - 4
R341	C - 3
R3453	B - 1
R3454	A - 1
R3455	B - 1
R345	A - 3
R346	A - 3
R3480	A - 1
R3481	A - 1
R3482	A - 1
R3483	A - 1
R3509	B - 2
R350	A - 3
R3510	A - 2
R3511	B - 2
R3A0	B - 6
R3A1	A - 5
R3A2	A - 5
R3A3	A - 6
R3A4	A - 6
R3A5	A - 6
R3A6	A - 6
R3A7	B - 6
R3A8	A - 6
R3A9	A - 6
R3B0	A - 6
R3B1	A - 6
R3B2	A - 5
R3B4	A - 6
R3B5	A - 6
R3B6	A - 6
R3B7	A - 6
R3B8	A - 6
R3C0	B - 5
R3C1	B - 5
R3C2	B - 6
R3C3	A - 5

SYMBOL NO.	ADDRESS
R3C4	A - 5
R3C5	A - 5
R3C6	A - 5
R3C7	A - 5
R3C8	A - 5
R3C9	A - 5
R3D0	A - 5
R3D1	A - 5
R3D2	A - 4
R3D5	A - 5
R3D6	A - 5
R3D7	A - 5
R3D8	A - 5
R3D9	A - 5
R3E0	C - 4
R3E1	B - 6
R3E2	B - 6
R3E3	B - 6
R3E4	B - 6
R3E5	B - 6
R3E6	B - 6
R3E7	B - 6
R3E8	B - 6
R3E9	A - 4
R3F0	C - 6
R3F2	B - 6
R3F7	B - 3
R3F8	B - 3
R3F8	B - 6
R3F9	B - 4
R3G0	B - 4
R3G1	B - 6
R3G2	B - 6
R3G4	B - 6
R3G5	B - 5
R3G6	B - 5
R3G7	B - 5
R3G8	B - 5
R3G9	A - 4
R3H0	C - 6
R3H1	B - 5
R3H2	C - 3
R3H3	C - 4
R3H4	C - 3
R3H5	C - 4
R3H6	C - 6
R3H7	C - 6
R3H9	C - 5
R3J0	C - 5
R3J1	C - 5
R3J2	C - 6
R3J3	C - 6
R3J4	C - 4
R3J5	C - 4
R3J6	C - 5
R3J7	C - 5
R3J8	C - 6
R3J9	C - 6
R3K0	C - 6
R3K1	C - 6

[illegible]

PCB SIGNAL (SOLDER SIDE)



PCB SIGNAL (SOLDER

SYMBOL NO.	ADDRESS	SYMBOL NO.
C2006	A - 3	C2F4
C2007	A - 3	C2F5
C2010	A - 3	C2F6
C2015	A - 3	C2F7
C2016	A - 3	C2G0
C2016	A - 4	C2G1
C2017	A - 3	C2G2
C2018	A - 3	C2G4
C201	B - 1	C2G5
C2021	A - 3	C2G7
C2030	A - 4	C2G8
C2032	A - 3	C2G9
C2033	A - 3	C2H0
C2035	A - 4	C2H1
C2036	A - 4	C2H2
C2037	A - 4	C2H3
C2038	A - 4	C2H4
C2039	B - 4	C2H5
C2041	A - 4	C2H6
C2042	A - 4	C2H6
C2043	A - 4	C2H7
C2044	A - 4	C2H8
C206	B - 1	C2H8
C207	B - 1	C2J0
C209	C - 1	C2J1
C224	B - 1	C2J2
C231	C - 1	C2J3
C234	D - 1	C2J4
C235	D - 1	C2J5
C239	B - 1	C2J6
C240	B - 1	C2J8
C241	B - 1	C2J9
C257	B - 1	C2K1
C258	B - 1	C2K2
C260	B - 1	C2K3
C263	B - 1	C2K4
C264	D - 2	C2K5
C2A1	C - 3	C2K7
C2A2	C - 3	C2K8
C2A3	C - 3	C2K9
C2A5	C - 3	C2L0
C2A7	C - 3	C2L1
C2B2	B - 6	C2L3
C2B5	B - 7	C2L4
C2C0	B - 5	C2L5
C2D0	B - 5	C2L7
C2D3	C - 6	C2L9
C2D7	C - 6	C2M0
C2D9	C - 5	C2M1
C2E1	C - 6	C2M2
C2E2	C - 6	C2M3
C2E3	C - 6	C2M4
C2E5	C - 6	C2M7
C2E6	B - 5	C2M8
C2E7	D - 6	C2N1
C2E8	C - 6	C2N3
C2E9	C - 7	C2N4
C2F0	D - 7	C2N5
C2F1	D - 6	C2P0
C2F3	D - 6	C2P4

S	A
C2006	A - 3
C2007	A - 3
C2010	A - 3
C2015	A - 3
C2016	A - 3
C2016	A - 4
C2017	A - 3
C2018	A - 3
C201	B - 1
C2021	A - 3
C2030	A - 4
C2032	A - 3
C2033	A - 3
C2035	A - 4
C2036	A - 4
C2037	A - 4
C2038	A - 4
C2039	B - 4
C2041	A - 4
C2042	A - 4
C2043	A - 4
C2044	A - 4
C206	B - 1
C207	B - 1
C209	C - 1
C224	B - 1
C231	C - 1
C234	D - 1
C235	D - 1
C239	B - 1
C240	B - 1
C241	B - 1
C257	B - 1
C258	B - 1
C260	B - 1
C263	B - 1
C264	D - 2
C2A1	C - 3
C2A2	C - 3
C2A3	C - 3
C2A5	C - 3
C2A7	C - 3
C2B2	B - 6
C2B5	B - 7
C2C0	B - 5
C2D0	B - 5
C2D3	C - 6
C2D7	C - 6
C2D9	C - 5
C2E1	C - 6
C2E2	C - 6
C2E3	C - 6
C2E5	C - 6
C2E6	B - 5
C2E7	D - 6
C2E8	C - 6
C2E9	C - 7
C2F0	D - 7
C2F1	D - 6
C2F3	D - 6

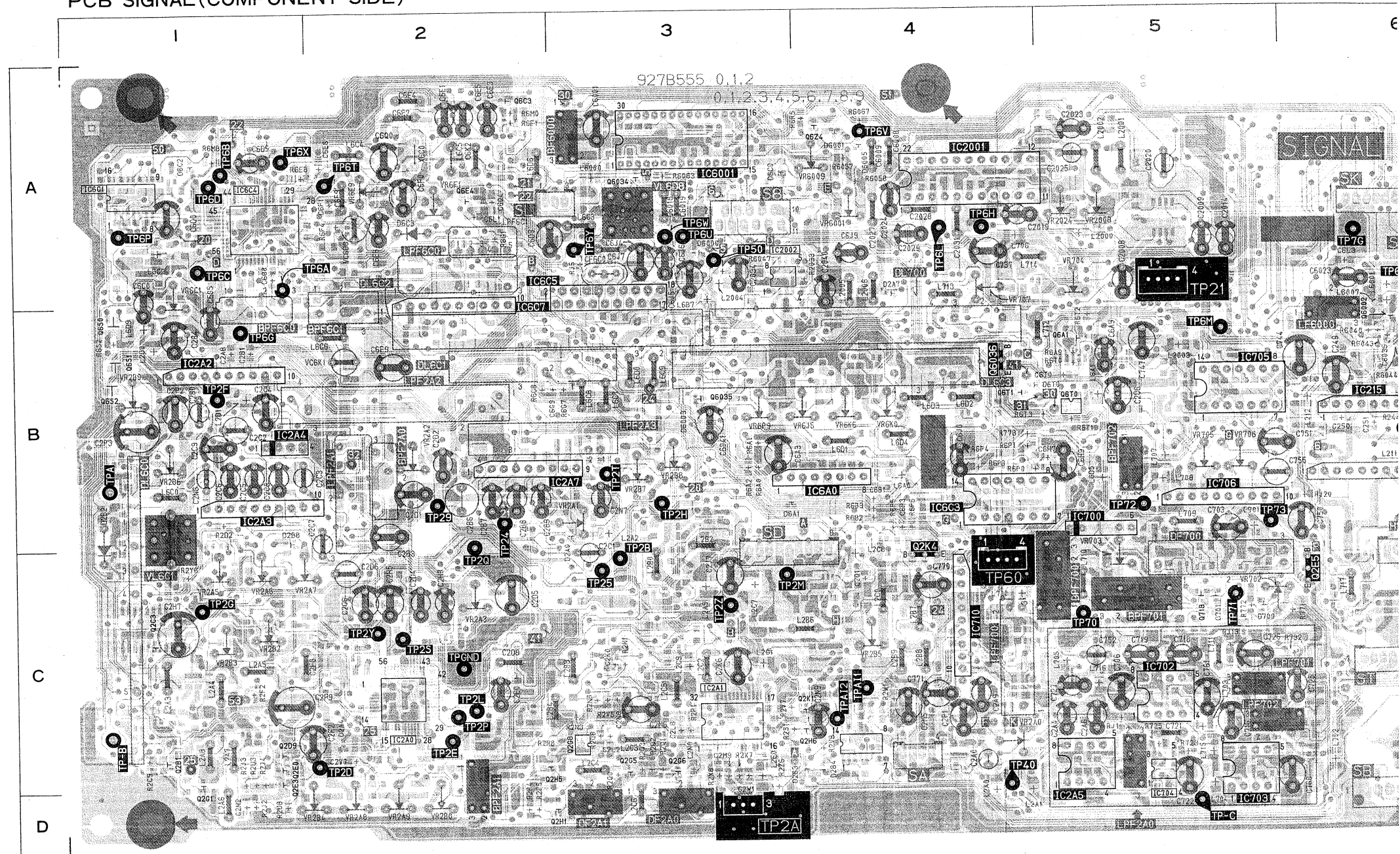
S	A
C2F4	C - 6
C2F5	C - 6
C2F6	D - 6
C2F7	D - 6
C2G0	C - 6
C2G1	C - 6
C2G2	C - 6
C2G4	C - 6
C2G5	C - 6
C2G7	C - 6
C2G8	C - 6
C2G9	C - 6
C2H0	A - 1
C2H1	C - 7
C2H2	C - 6
C2H3	C - 7
C2H4	C - 7
C2H5	C - 7
C2H6	C - 7
C2H6	C - 7
C2H7	C - 7
C2H8	C - 4
C2H8	C - 7
C2J0	C - 4
C2J1	C - 4
C2J2	C - 4
C2J3	C - 4
C2J4	C - 4
C2J5	C - 4
C2J6	C - 4
C2J8	C - 4
C2J9	C - 4
C2K1	C - 5
C2K2	C - 5
C2K3	C - 5
C2K4	C - 5
C2K5	C - 4
C2K7	C - 4
C2K8	C - 4
C2K9	D - 4
C2L0	D - 4
C2L1	C - 5
C2L3	C - 5
C2L4	C - 5
C2L5	C - 5
C2L7	D - 5
C2L9	C - 5
C2M0	D - 5
C2M1	D - 4
C2M2	C - 5
C2M3	C - 4
C2M4	D - 5
C2M7	C - 5
C2M8	C - 5
C2N1	C - 4
C2N3	D - 6
C2N4	C - 4
C2N5	C - 5
C2P0	A - 2
C2P4	C - 7

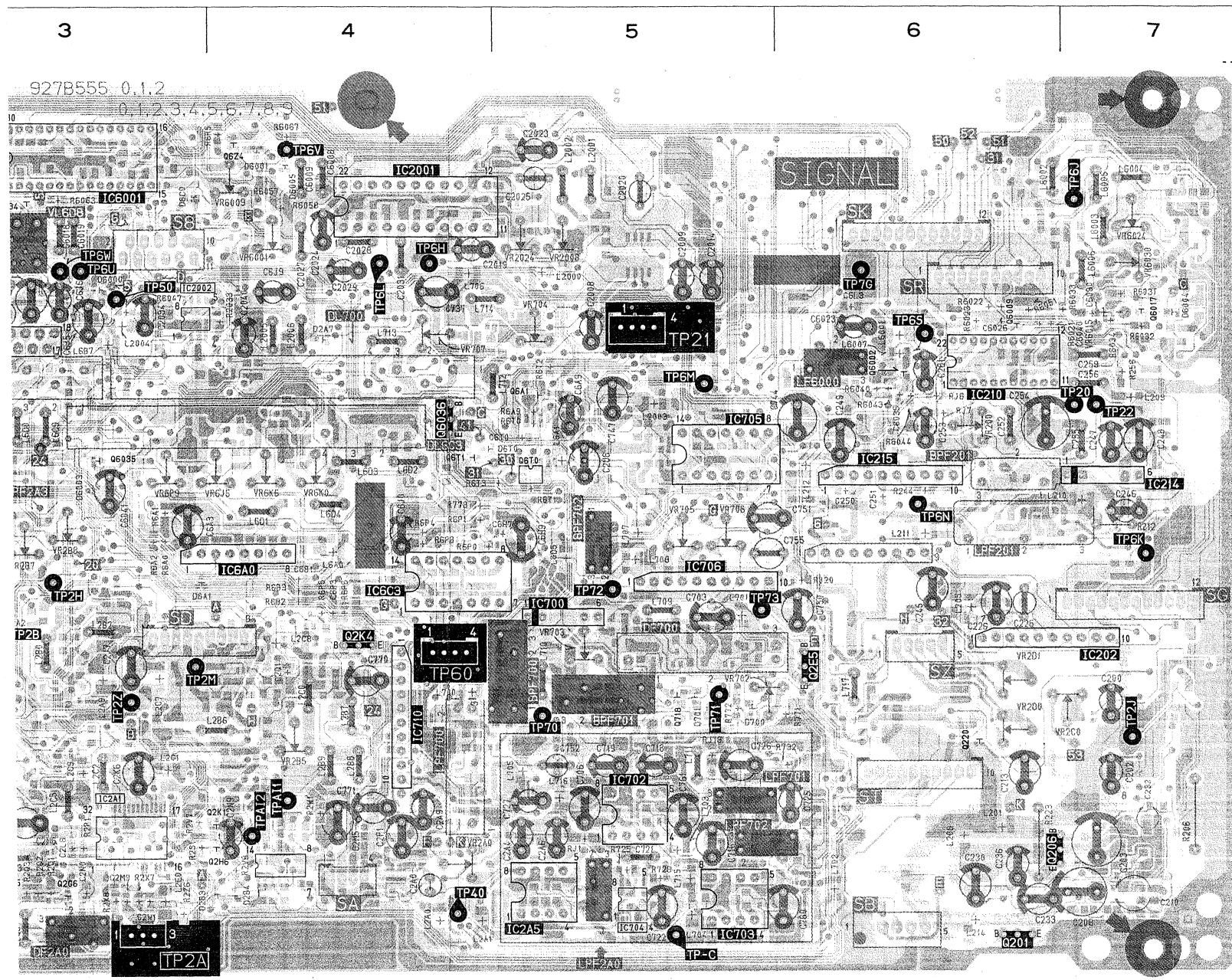
S	A
C2U0	C - 5
C2U2	B - 5
C2U3	B - 5
C2U4	C - 5
C2U5	C - 5
C2U7	C - 4
C2U8	C - 4
C2W0	C - 6
C2X0	C - 2
C2X1	C - 1
C2Z9	B - 5
C3031	B - 2
C3032	B - 2
C3033	B - 2
C3034	B - 2
C6002	A - 5
C6003	A - 5
C6004	A - 5
C6005	A - 5
C6006	A - 5
C6007	A - 5
C6010	A - 4
C6011	A - 4
C6014	A - 5
C6016	A - 5
C6017	A - 5
C6020	A - 4
C6021	A - 4
C6022	A - 4
C6024	A - 1
C6025	A - 1
C6027	A - 1
C6028	A - 1
C6029	A - 1
C6036	A - 5
C6037	A - 2
C6038	A - 1
C6039	A - 1
C680	B - 3
C6A0	B - 4
C6A1	B - 4
C6A2	B - 4
C6A4	B - 4
C6A5	B - 4
C6A6	B - 4
C6A8	B - 3
C6C1	A - 7
C6C2	B - 7
C6C3	A - 7
C6C4	A - 7
C6C5	A - 7
C6C6	A - 7
C6C7	A - 7
C6D1	A - 7
C6D2	A - 7
C6D3	A - 7
C6D4	A - 7
C6D6	A - 6
C6D7	A - 6
C6E0	A - 5

S	A
C6E7	A - 6
C6F2	A - 6
C6F4	A - 6
C6F5	A - 6
C6F6	A - 6
C6F7	A -

SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
C6E7	A - 6	C717	D - 2	Q213	B - 1	Q2J0	C - 6	Q712	C - 3	R249	B - 1	R2E7	C - 6	R2N7	C - 4	R2X6	C - 4	R6C9	A - 7	R6Q4	A - 2	R750	A - 3				
C6F2	A - 6	C720	C - 3	Q214	A - 4	Q2J1	C - 6	Q713	C - 3	R250	B - 1	R2E8	C - 6	R2N9	D - 4	R2X9	C - 5	R6D0	A - 7	R6Q5	A - 4	R751	A - 3				
C6F4	A - 6	C723	D - 3	Q215	A - 5	Q2J2	C - 6	Q714	B - 3	R251	B - 1	R2E9	C - 6	R2P0	C - 5	R2Y0	B - 7	R6D1	A - 7	R6Q6	A - 4	R752	A - 3				
C6F5	A - 6	C724	D - 3	Q2A0	C - 3	Q2J3	C - 5	Q715	B - 2	R252	B - 1	R2F0	C - 6	R2P2	C - 5	R2Y1	B - 7	R6D3	B - 7	R6Q7	A - 3	R753	A - 3				
C6F6	A - 6	C728	C - 3	Q2A1	C - 3	Q2J4	C - 3	Q716	A - 3	R253	A - 1	R2F1	C - 6	R2P3	D - 5	R2Y2	B - 7	R6D4	A - 7	R6Q8	B - 4	R754	A - 3				
C6F7	A - 6	C729	C - 3	Q2A2	B - 5	Q2J5	B - 6	Q717	A - 3	R254	B - 1	R2F3	C - 6	R2P6	C - 5	R2Y3	B - 7	R6D5	A - 7	R6Q9	A - 6	R755	B - 2				
C6F8	A - 6	C731	C - 3	Q2A3	B - 5	Q2J6	B - 5			R255	B - 1	R2F4	C - 6	R2P7	C - 5	R2Y4	B - 7	R6D6	A - 7	R6R0	A - 6	R756	B - 2				
C6F8	B - 6	C732	C - 3	Q2A4	B - 6	Q2J7	B - 5			R257	B - 1	R2F5	C - 6	R2P8	C - 5	R2Y5	B - 7	R6D7	A - 6	R6R1	A - 6	R757	B - 2				
C6G1	B - 6	C734	A - 3	Q2A5	B - 7	Q2J8	C - 5	R2007	A - 3	R257	B - 6	R2F6	C - 6	R2P9	C - 5	R2Z0	D - 5	R6D8	A - 6	R6R2	A - 6	R758	B - 2				
C6G2	A - 6	C735	A - 3	Q2A6	B - 6	Q2J9	C - 5	R2011	A - 3	R258	B - 2	R2F7	C - 6	R2Q4	C - 5	R2Z5	C - 7	R6E0	A - 6	R6R3	A - 6	R759	B - 2				
C6G3	B - 6	C736	A - 3	Q2A7	B - 6	Q2K0	C - 4	R2012	A - 3	R259	A - 4	R2F8	D - 6	R2Q5	C - 5	R2Z8	B - 5	R6E1	A - 6	R6R4	A - 6	R760	B - 3				
C6G4	A - 7	C738	A - 3	Q2A8	C - 6	Q2K3	B - 4	R2014	A - 3	R259	B - 5	R2F9	D - 6	R2Q6	C - 5	R2Z9	B - 5	R6E3	A - 5	R6S0	A - 7	R761	B - 3				
C6G7	A - 7	C739	B - 3	Q2A9	C - 5	Q2L0	C - 5	R2016	A - 3	R260	A - 4	R2G0	D - 6	R2Q7	C - 5	R3036	B - 2	R6E4	A - 5	R6S1	B - 7	R762	B - 3				
C6G8	A - 7	C740	B - 3	Q2B2	C - 7	Q2M0	C - 1	R2017	A - 3	R261	A - 5	R2G1	C - 6	R2Q9	C - 4	R3037	B - 2	R6E5	A - 5	R6S3	B - 7	R763	B - 3				
C6H1	B - 5	C741	B - 2	Q2B3	C - 7	Q6000	A - 5	R2018	A - 4	R262	A - 4	R2G2	C - 6	R2R0	C - 4	R3038	B - 2	R6E6	A - 5	R6S4	B - 7	R764	B - 3				
C6H2	B - 3	C742	B - 2	Q2B4	B - 7	Q6001	B - 2	R2019	A - 3	R265	B - 1	R2G3	C - 6	R2R1	D - 5	R3039	B - 2	R6E7	A - 6	R6S5	C - 7	R765	B - 3				
C6H4	B - 3	C743	B - 2	Q2B5	B - 7	Q6004	A - 5	R201	C - 1	R267	C - 2	R2G4	C - 6	R2R2	D - 5	R3041	B - 2	R6E9	A - 5	R700	C - 3	R766	B - 3				
C6H5	B - 3	C745	B - 3	Q2B6	C - 6	Q6005	A - 4	R2020	A - 3	R271	C - 4	R2G8	C - 4	R2R3	D - 5	R3042	B - 2	R6F2	A - 6	R701	C - 3	R767	B - 3				
C6H6	B - 3	C746	B - 3	Q2B8	C - 5	Q6006	A - 4	R2021	A - 4	R280	A - 5	R2G9	C - 4	R2R4	D - 5	R3V0	C - 4	R6F3	A - 6	R702	C - 3	R768	C - 2				
C6H8	B - 3	C748	B - 3	Q2C0	C - 6	Q6007	A - 1	R2022	A - 4	R291	B - 2	R2H0	C - 4	R2R5	C - 5	R6000	A - 5	R6F5	B - 6	R703	C - 3	R769	C - 3				
C6J1	B - 3	C749	B - 2	Q2C0	C - 6	Q6008	A - 1	R2023	A - 3	R2A0	C - 3	R2H1	C - 4	R2R6	C - 5	R6004	A - 4	R6F6	B - 6	R704	C - 3	R770	C - 3				
C6J3	A - 5	C762	C - 2	Q2C1	C - 6	Q6011	A - 1	R2025	A - 3	R2A1	C - 3	R2H2	C - 4	R2R7	D - 5	R6006	A - 5	R6F8	A - 6	R705	C - 3	R774	C - 2				
C6J8	A - 5	C7C9	A - 7	Q2C4	C - 7	Q6012	A - 1	R2026	A - 3	R2A2	C - 3	R2H3	C - 6	R2R9	D - 5	R6009	A - 4	R6F9	A - 5	R706	C - 3	R775	C - 4				
C6K0	A - 6			Q2C5	B - 6	Q6013	A - 1	R2029	A - 3	R2A3	C - 3	R2H4	C - 6	R2S0	D - 5	R6011	A - 4	R6G0	A - 6								
C6K3	B - 6	D2001	B - 3	Q2C9	C - 6	Q6015	A - 1	R202	C - 1	R2A4	B - 6	R2H9	C - 5	R2S3	B - 5	R6012	A - 5	R6G2	A - 7	R707	B - 3						
C6K4	B - 6	D200	C - 2	Q2D0	B - 7	Q6020	A - 1	R2031	A - 4	R2A5	B - 6	R2J0	C - 6	R2S4	C - 7	R6013	A - 1	R6G3	A - 6	R708	C - 3						
C6K5	B - 5	D202	B - 2	Q2D1	B - 7	Q6021	A - 1	R2032	B - 4	R2A6	B - 6	R2J1	D - 6	R2S6	C - 5	R6014	A - 1	R6G4	B - 7	R709	C - 3						
C6K6	A - 6	D203	B - 2	Q2D2	C - 6	Q6A0	B - 5	R205	D - 6	R2A7	B - 6	R2J5	D - 7	R2S8	C - 6	R6016	A - 1	R6G6	B - 5	R710	C - 2						
C6K9	A - 6	D204	B - 2	Q2D3	C - 6	Q6C0	A - 6	R205	D - 6	R2A8	B - 5	R2J7	D - 7	R2T0	C - 6	R6017	A - 1	R6G7	B - 5	R711	C - 2						
C6L0	A - 5	D205	B - 2	Q2D4	C - 6	Q6C2	A - 6	R206	D - 6	R2A9	B - 5	R2K0	B - 2	R2T2	D - 6	R6018	A - 1	R6G9	B - 5	R712	C - 2						
C6L2	A - 6	D2A2	C - 7	Q2D5	C - 6	Q6C4	A - 5	R207	C - 1	R2B0	B - 6	R2K1	B - 3	R2T4	C - 7	R6019	A - 1	R6H8	B - 3	R713	C - 3						
C6P0	B - 4	D2A5	B - 4	Q2D6	D - 6	Q6C6	A - 5	R208	B - 1	R2B1	B - 6	R2K3	C - 5	R2T5	C - 5	R6025	A - 1	R6K1	B - 4	R714	C - 2						
C6P1	B - 4	D2B0	C - 7	Q2D7	C - 6	Q6D1	A - 7	R209	B - 1	R2B2	B - 6	R2K4	C - 5	R2T8	B - 6	R6026	B - 1	R6K2	B - 4	R715	C - 2						
C6P4	B - 4	D2B5	C - 5	Q2D8	C - 6	Q6D2	B - 5	R210	D - 1	R2B3	B - 5	R2K5	C - 5	R2T9	B - 6	R6027	A - 1	R6K3	B - 4	R716	C - 2						
C6P5	B - 4	D2B6	D - 4	Q2E1	C - 6	Q6D3	B - 3	R211	B - 1	R2B4	B - 5	R2K6	C - 5	R2U0	C - 4	R6028	A - 1	R6K4	B - 4	R719	C - 3						
C6P6	B - 4	D2C1	C - 4	Q2E2	C - 7	Q6D5	B - 3	R217	B - 1	R2B5	B - 6	R2K7	C - 5	R2U1	C - 4	R6048	A - 1	R6K5	B - 4	R720	C - 2						
C6P7	B - 4	D2C2	C - 4	Q2E6	C - 5	Q6D6	B - 4	R218	B - 1	R2B6	B - 6	R2K8	C - 4	R2U2	B - 4	R6049	A - 1	R6K7	C - 3	R721	D - 2						
C6P8	B - 4	D6002	A - 4	Q2E7	C - 5	Q6D7	B - 4	R219	C - 2	R2B7	C - 6	R2K9	C - 4	R2U4	B - 4	R6052	A - 1	R6K8	B - 5	R723	C - 2						
C6P9	A - 2	D6A0	B - 5	Q2E8	C - 4	Q6D8	B - 4	R220	C - 1	R2B8	B - 6	R2L0	C - 4	R2U7	D - 6	R6053	A - 1	R6K9	B - 5	R726	C - 3						
C6Q1	A - 6	D6C1	A - 5	Q2E9	B - 4	Q6E0	B - 3	R221	C - 1	R2C0	B - 5	R2L1	C - 4	R2U9	C - 6	R6054	A - 1	R6L0	B - 5	R727	C - 2						
C6Q2	B - 6	D6C5	A - 5	Q2F0	B - 5	Q6E1	A - 6	R222	C - 1	R2C1	C - 5	R2L2	C - 4	R2V1	C - 3	R6055	A - 1	R6L1	A - 5	R729	C - 2						
C6Q3	A - 5	D6C6	A - 7	Q2F1	C - 4	Q6E3	A - 6	R224	D - 1	R2C2	C - 3	R2L4	C - 4	R2V2	C - 3	R6056	A - 1	R6L3	A - 4	R730	C - 2						
C6Q5	A - 6	D6C7	B - 5	Q2F2	C - 4	Q6E5	A - 5	R225	D - 1	R2C3	C - 5	R2L5	C - 4	R2V3	B - 6	R6059	A - 4	R6L4	B - 5	R731	C - 2						
C6Q6	B - 4	D6C8	A - 5	Q2F3	C - 4	Q6F0	A - 6	R226	D - 1	R2C4	C - 6	R2L6	C - 4	R2V4	C - 6	R6065	A - 5	R6L5	A - 7	R733	C - 2						
C6Q7	A - 6			Q2F4	B - 5	Q6F0	A - 6	R227	C - 1	R2C5	C - 6	R2L7	C - 4	R2V6	C - 4	R6066	A - 5	R6L6	B - 3	R734	C - 2						
C6S0	B - 7	IC2000	A - 3	Q2F5	C - 4	Q6Z0	B - 4	R228	C - 1	R2C6	C - 6	R2L9	C - 4	R2W0	C - 4	R6A3	B - 4	R6M1	A - 5	R735	C - 2						
C6S1	B - 7	IC6A1	B - 3	Q2F6	C - 5	Q6Z1	B - 4	R229	C - 1	R2C7	C - 6	R2M0	C - 4	R2W2	C - 4	R6A4	B - 4	R6M2	B - 6	R736	C - 2						
C700	C - 3			Q2F7	C - 5	Q6Z2	A - 6	R230	C - 1	R2C8	C - 6	R2M1	C - 4	R2W3	C - 4	R6A5	B - 4	R6M3	B - 5	R737	C - 2						
C701	C - 3	Q2000	A - 4	Q2F8	C - 4	Q6Z3	A - 6	R231	C - 2	R2D0	C - 7	R2M2	C - 4	R2W4	D - 5	R6A6	B - 4	R6M4	A - 6	R738	C - 3						
C702	C - 2	Q2001	A - 3	Q2F9	C - 5	Q700	C - 3	R235	B - 1	R2D3	C - 6	R2M3	C - 4	R2W5	D - 5	R6A8	B - 5	R6M6	A - 7	R739	C - 3						
C704	C - 2	Q2002	A - 3	Q2G0	D - 7	Q701	C - 3	R236	B - 1	R2D4	C - 6	R2M4	C - 4	R2W6	D - 6	R6B0	B - 4	R6M9	A - 7	R740	C - 2						
C705	C - 2	Q2003	A - 4	Q2G2	C - 5	Q702	C - 3	R237	B - 1	R2D6	C - 5	R2M5	C - 4	R2W7	C - 4	R6B1	B - 4	R6P2	B - 3	R741	C - 3						
C707	C - 3	Q2004	A - 3	Q2G4	C - 5	Q703	C - 2	R238	B - 1	R2D8	C - 5	R2M6	C - 4	R2W8	D - 6	R6C0	C - 7	R6P7	B - 5	R742	C - 3						
C708	C - 2	Q200	B - 1	Q2G7	C - 5	Q704	C - 2	R239	B - 2	R2D9	C - 5	R2M8	C - 4	R2W9	C - 3	R6C2	A - 7	R6P8	B - 5	R743	C - 3						
C709	C - 3	Q202	B - 1	Q2G9	C - 4	Q705	C - 3	R240	B - 2	R2E1	C - 7	R2M9	C - 4	R2X1	C - 5	R6C3	A - 6	R6Q0	A - 6	R744	C - 3						
C711	C - 3	Q207	C - 1	Q2H0	D - 5	Q707	C - 2	R242	B - 2	R2E2	C - 7	R2N0	C - 4	R2X2	D - 4	R6C4	A - 6	R6Q1	B - 4	R745	C - 3						
C712	D - 2	Q208	C - 1	Q2H2	C - 5	Q708	C - 2	R243	B - 1	R2E3	C - 7	R2N2	C - 5	R2X3	D - 4	R6C5	A - 7	R6Q2	A - 7	R746	C - 3						
C713	C - 2	Q209	C - 2	Q2H3	C - 5	Q709	C - 2	R245	B - 2	R2E4	C - 6	R2N4	C - 5	R2X4	C - 5	R6C6	A - 7	R6Q3	A - 7	R747	B - 3						
C714	C - 2	Q210	C - 2	Q2H8	C - 6	Q710	C - 3	R246	B - 1	R2E4	C - 7	R2N5	C - 5	R2X5	C - 5	R6C7	A - 7	R6Q3	A - 7	R748	B - 3						
C715	C - 2	Q211	B - 2	Q2H9	C - 6	Q711	C - 2	R247	B - 1	R2E6	C - 6	R2N6	C - 4	R2X6	C - 4	R6C8	A - 7			R749	B - 3						

PCB SIGNAL (COMPONENT SIDE)





PCB SIGNAL (COMPONENT SIDE)

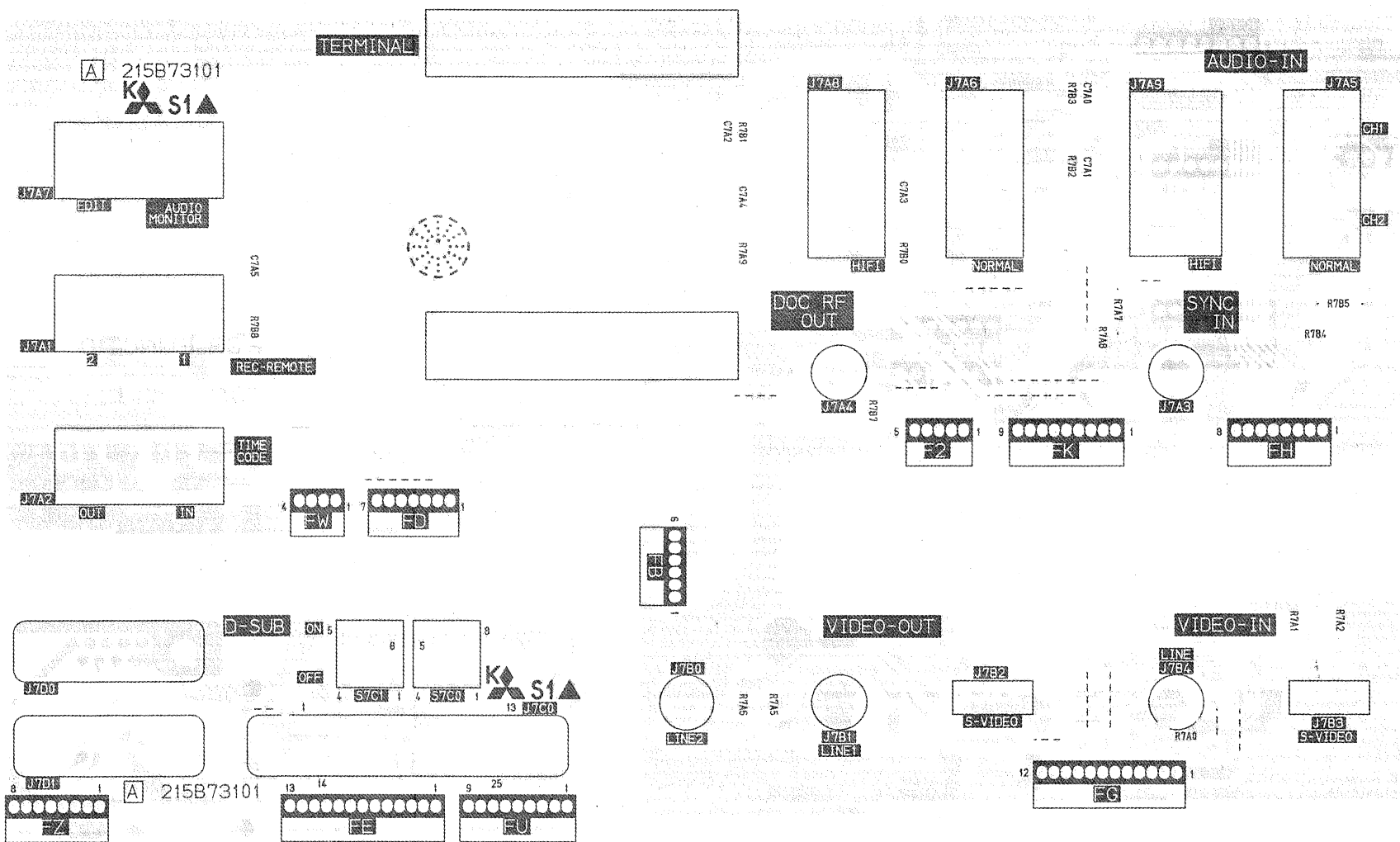
SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
BF6000	A - 3	DF2A1	D - 3	L2A7	C - 1	L715	C - 5	R2J4	C - 1	R6R5	
BPF201	B - 6	DF700	C - 5	L2A8	C - 1	L716	A - 4	R2N1	C - 3	R6T0	
BPF2A0	B - 2			L2A9	C - 3	L716	C - 5	R2N3	C - 3	R6T1	
BPF2A1	C - 2			L2B0	C - 3	L717	C - 6	R2N8	C - 3	R6T2	
BPF6C0	B - 1	DL6C0	B - 1	L2B2	C - 3			R2P1	C - 3	R6T3	
BPF6C1	B - 2	DL6C1	B - 2	L2B3	C - 3	LF6000	B - 6	R2P4	D - 2	R725	
BPF700	C - 5	DL6C2	B - 2	L2B4	C - 3	LPF201	B - 6	R2P5	D - 2	R728	
BPF701	C - 5	DL6C3	B - 4	L2C0	C - 4	LPF2A0	C - 5	R2Q0	C - 3	R732	
BPF702	B - 5	DL700	A - 4	L2C1	C - 3	LPF2A1	B - 2	R2Q1	C - 3	R733	
				L2C2	C - 3	LPF2A2	B - 2	R2Q2	C - 3	R771	
C250	B - 6	IC2001	A - 4	L2C4	C - 3	LPF2A3	B - 3	R2Q3	C - 3	R772	
C251	B - 6	IC2002	A - 3	L2C5	C - 3	LPF6C0	A - 2	R2Q8	C - 3		
C2A8	B - 1	IC210	B - 6	L2C6	D - 3	LPF6C1	A - 2	R2R8	C - 2	T6A	
C2B1	B - 1	IC214	B - 7	L2C7	C - 3	LPF700	C - 4	R2S1	C - 3	TP20	
C2K0	C - 3	IC215	B - 6	L2C8	C - 4	LPF701	C - 5	R2U3	C - 1	TP21	
C2L2	C - 3	IC2A0	C - 2	L2C9	C - 3	LPF702	C - 5	R2U8	D - 1	TP22	
C2L3	C - 3	IC2A1	C - 3	L2D0	B - 1			R2V5	C - 3	TP24	
C2L8	C - 3	IC2A2	B - 1	L2D1	B - 1	Q201	C - 6	R2V7	C - 3	TP25	
C2M9	C - 3	IC2A3	B - 1	L2E0	C - 3	Q206	C - 6	R2V8	C - 4	TP29	
C2N0	C - 3	IC2A4	B - 1	L2L2	B - 3	Q220	C - 6	R2W1	C - 4	TP2A	
C2N2	D - 1	IC2A5	C - 5	L5A1	B - 5	Q2B1	C - 1	R2X7	C - 3	TP2B	
C2N8	C - 3	IC2A7	B - 3	L6001	A - 6	Q2C3	C - 1	R2X8	C - 3	TP2D	
C2Q1	C - 4	IC6001	A - 3	L6002	A - 6	Q2D9	C - 1	R2Y6	C - 1	TP2E	
C2V0	C - 2	IC6A0	B - 4	L6003	A - 7	Q2E0	C - 1	R2Z6	C - 3	TP2F	
C6026	A - 6	IC6C1	A - 1	L6004	A - 7	Q2E3	C - 1	R5S2	B - 1	TP2G	
C6035	B - 6	IC6C3	B - 4	L6005	A - 7	Q2E5	C - 6	R6021	A - 6	TP2H	
C6040	A - 7	IC6C4	A - 1	L6006	A - 7	Q2G1	D - 1	R6022	A - 6	TP2J	
C6B1	B - 4	IC6C5	A - 3	L6007	A - 6	Q2G5	C - 3	R6023	A - 6	TP2L	
C6E6	A - 2	IC6C7	B - 2	L605	B - 5	Q2G6	C - 3	R6031	A - 7	TP2M	
C6F1	A - 2	IC700	B - 5	L6A0	B - 4	Q2G8	C - 3	R6032	A - 7	TP2P	
C6G0	A - 1	IC702	C - 5	L6B7	A - 3	Q2H1	D - 3	R6033	A - 7	TP2S	
C6H7	B - 5	IC703	C - 5	L6C0	B - 1	Q2H5	C - 2	R6034	A - 7	TP2T	
C6L1	A - 2	IC704	C - 5	L6C2	A - 1	Q2H6	C - 4	R6040	B - 6	TP2Y	
C6L3	A - 5	IC705	B - 5	L6C3	A - 3	Q2K1	C - 4	R6043	B - 6	TP2Z	
C6P3	B - 4	IC706	B - 5	L6C4	A - 2	Q2K4	C - 4	R6044	B - 6	TP40	
C6Q4	A - 2	IC710	C - 4	L6C5	A - 2	Q5S0	B - 1	R6047	A - 3	TP50	
C6T0	B - 5			L6C6	B - 2	Q5S1	B - 1	R6051	A - 6	TP60	
		L2001	A - 5	L6C7	B - 3	Q5S2	B - 1	R6058	A - 4	TP6B	
CF6C0	A - 3	L2002	A - 5	L6C8	B - 3	Q6002	B - 6	R6063	A - 3	TP6C	
		L2003	B - 5	L6C9	B - 3	Q6009	A - 6	R6067	A - 4	TP6D	
D2A0	B - 3	L2004	A - 3	L6D0	B - 3	Q6017	A - 7	R6A0	B - 3	TP6G	
D2A4	C - 2	L2005	A - 4	L6D1	B - 4	Q6034	A - 3	R6A1	B - 3	TP6H	
D2A7	A - 4	L2006	A - 4	L6D2	B - 4	Q6035	B - 3	R6A2	B - 3	TP6J	
D2B2	C - 1	L201	C - 6	L6D3	B - 4	Q6036	B - 4	R6A9	B - 5	TP6K	
D2B3	C - 4	L205	B - 6	L6D4	B - 4	Q6A1	B - 5	R6B2	B - 4	TP6L	
D2B4	C - 4	L208	C - 6	L6D5	A - 2	Q6C3	A - 2	R6B3	B - 4	TP6M	
D2B8	B - 1	L209	B - 7	L6D9	B - 1	Q6E4	A - 2	R6E8	A - 1	TP6N	
D6000	A - 3	L210	B - 7	L700	C - 4	Q6T0	B - 5	R6F1	A - 2	TP6P	
D6001	A - 4	L211	B - 6	L701	B - 5	Q6T1	B - 4	R6F4	A - 2	TP6S	
D6003	B - 3	L212	B - 6	L702	C - 6	Q6Z4	A - 4	R6G7	B - 3	TP6T	
D6004	A - 7	L214	C - 6	L703	C - 5	Q718	C - 5	R6G8	B - 2	TP6U	
D6005	A - 4	L286	C - 4	L704	D - 5			R6G9	B - 3	TP6V	
D6A1	B - 3	L287	C - 4	L705	C - 5	R2023	A - 4	R6M0	A - 2	TP6W	
D6C0	A - 3	L288	C - 4	L706	A - 4	R244	B - 6	R6M8	A - 1	TP6X	
D6C2	A - 1	L289	C - 4	L707	B - 5	R256	B - 7	R6P0	B - 4	TP6Y	
D6C3	A - 2	L2A0	D - 4	L708	B - 5	R2C9	C - 1	R6P1	B - 4	TP70	
D700	C - 5	L2A1	D - 4	L709	B - 5	R2D2	B - 1	R6P3	B - 4	TP71	
D701	C - 5	L2A3	C - 1	L710	C - 5	R2F2	C - 1	R6P4	B - 4	TP72	
		L2A4	C - 1	L711	C - 5	R2J2	D - 1	R6P5	B - 4	TP73	
DF2A0	D - 3	L2A5	C - 1	L714	A - 4	R2J3	C - 1	R6P6	B - 4	TP7G	
		L2A6	D - 1								

PCB SIGNAL (COMPONENT SIDE)

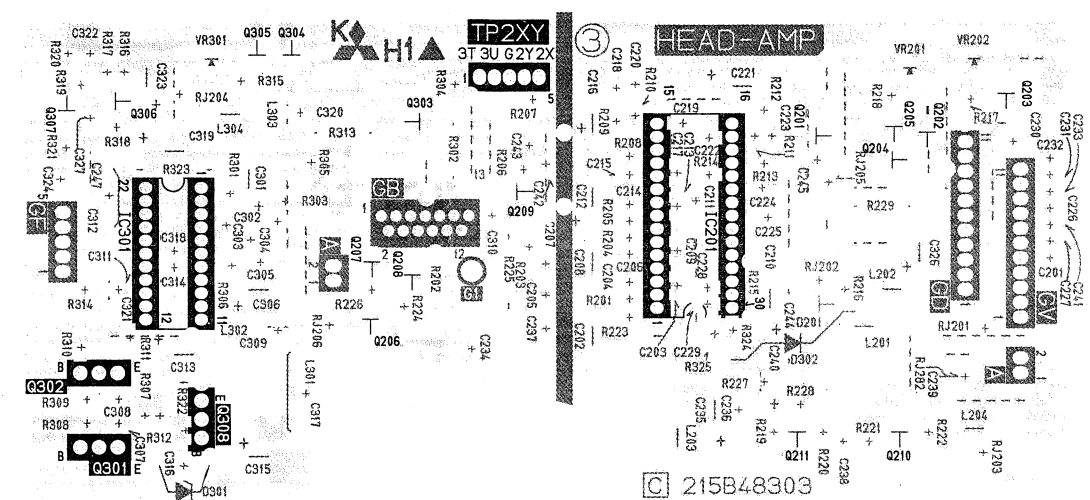
SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
BF6000	A - 3	DF2A1	D - 3	L2A7	C - 1	L715	C - 5	R2J4	C - 1	R6R5	A - 4	TPA11	C - 4
BPF201	B - 6	DF700	C - 5	L2A8	C - 1	L716	A - 4	R2N1	C - 3	R6T0	B - 5	TPA12	C - 4
BPF2A0	B - 2			L2A9	C - 3	L716	C - 5	R2N3	C - 3	R6T1	B - 5	TPA	B - 1
BPF2A1	C - 2	DL6C0	B - 1	L2B0	C - 3	L717	C - 6	R2N8	C - 3	R6T2	B - 5	TPB	C - 1
BPF6C0	B - 1	DL6C1	B - 2	L2B2	C - 3			R2P1	C - 3	R6T3	B - 4	TPC	D - 5
BPF6C1	B - 2	DL6C2	B - 2	L2B3	C - 3	LF6000	B - 6	R2P4	D - 2	R725	C - 5	TPGND	C - 2
BPF700	C - 5	DL6C3	B - 4	L2B4	C - 3	LPF201	B - 6	R2P5	D - 2	R728	C - 5		
BPF701	C - 5	DL700	A - 4	L2C0	C - 4	LPF2A0	C - 5	R2Q0	C - 3	R732	C - 6	VC6D8	A - 2
BPF702	B - 5			L2C1	C - 3	LPF2A1	B - 2	R2Q1	C - 3	R733	B - 4	VC6K1	B - 2
		IC2001	A - 4	L2C2	C - 3	LPF2A2	B - 2	R2Q2	C - 3	R771	C - 6		
C250	B - 6	IC2002	A - 3	L2C4	C - 3	LPF2A3	B - 3	R2Q3	C - 3	R772	C - 5	VL6C1	C - 1
C251	B - 6	IC210	B - 6	L2C5	C - 3	LPF6C0	A - 2	R2Q8	C - 3			VL6D8	A - 3
C2A8	B - 1	IC214	B - 7	L2C6	D - 3	LPF6C1	A - 2	R2R8	C - 2	T6A	A - 1		
C2B1	B - 1	IC215	B - 6	L2C7	C - 3	LPF700	C - 4	R2S1	C - 3	TP20	B - 7	VR2008	A - 5
C2K0	C - 3	IC2A0	C - 2	L2C8	C - 4	LPF701	C - 5	R2U3	C - 1	TP21	A - 5	VR200	B - 6
C2L2	C - 3	IC2A1	C - 3	L2C9	C - 3	LPF702	C - 5	R2U8	D - 1	TP22	B - 7	VR2024	A - 5
C2L3	C - 3	IC2A2	B - 1	L2D0	B - 1			R2V5	C - 3	TP24	B - 2	VR2A0	C - 4
C2L8	C - 3	IC2A3	B - 1	L2D1	B - 1	Q201	C - 6	R2V7	C - 3	TP25	C - 3	VR2A1	B - 3
C2M9	C - 3	IC2A4	B - 1	L2E0	C - 3	Q206	C - 6	R2V8	C - 4	TP29	B - 2	VR2A2	B - 2
C2N0	C - 3	IC2A5	C - 5	L2L2	B - 3	Q220	C - 6	R2W1	C - 4	TP2A	D - 3	VR2A3	C - 2
C2N2	D - 1	IC2A7	B - 3	L5A1	B - 5	Q2B1	C - 1	R2X7	C - 3	TP2B	C - 3	VR2A5	C - 1
C2N8	C - 3	IC6001	A - 3	L6001	A - 6	Q2C3	C - 1	R2X8	C - 3	TP2D	C - 2	VR2A6	C - 1
C2Q1	C - 4	IC6A0	B - 4	L6002	A - 6	Q2D9	C - 1	R2Y6	C - 1	TP2E	C - 2	VR2A7	C - 1
C2V0	C - 2	IC6C1	A - 1	L6003	A - 7	Q2E0	C - 1	R2Z6	C - 3	TP2F	B - 1	VR2A8	D - 2
C6026	A - 6	IC6C3	B - 4	L6004	A - 7	Q2E3	C - 1	R5S2	B - 1	TP2G	C - 2	VR2A9	D - 2
C6035	B - 6	IC6C4	A - 1	L6005	A - 7	Q2E5	C - 6	R6021	A - 6	TP2H	B - 3	VR2B0	D - 2
C6040	A - 7	IC6C5	A - 3	L6006	A - 7	Q2G1	D - 1	R6022	A - 6	TP2J	C - 7	VR2B2	C - 1
C6B1	B - 4	IC6C7	B - 2	L6007	A - 6	Q2G5	C - 3	R6023	A - 6	TP2L	C - 2	VR2B3	C - 1
C6E6	A - 2	IC700	B - 5	L605	B - 5	Q2G6	C - 3	R6031	A - 7	TP2M	C - 3	VR2B4	D - 1
C6F1	A - 2	IC702	C - 5	L6A0	B - 4	Q2G8	C - 3	R6032	A - 7	TP2P	C - 2	VR2B5	C - 4
C6G0	A - 1	IC703	C - 5	L6B7	A - 3	Q2H1	D - 3	R6033	A - 7	TP2S	C - 2	VR2B6	B - 1
C6H7	B - 5	IC704	C - 5	L6C0	B - 1	Q2H5	C - 2	R6034	A - 7	TP2T	B - 3	VR2B7	B - 3
C6L1	A - 2	IC705	B - 5	L6C2	A - 1	Q2H6	C - 4	R6040	B - 6	TP2Y	C - 2	VR2B8	B - 3
C6L3	A - 5	IC706	B - 5	L6C3	A - 3	Q2K1	C - 4	R6043	B - 6	TP2Z	C - 3	VR2C0	C - 7
C6P3	B - 4	IC710	C - 4	L6C4	A - 2	Q2K4	C - 4	R6044	B - 6	TP40	C - 4	VR2D0	C - 6
C6Q4	A - 2			L6C5	A - 2	Q5S0	B - 1	R6047	A - 3	TP50	A - 3	VR2D1	C - 6
C6T0	B - 5	L2001	A - 5	L6C6	B - 2	Q5S1	B - 1	R6051	A - 6	TP60	C - 4	VR6001	A - 4
		L2002	A - 5	L6C7	B - 3	Q5S2	B - 1	R6058	A - 4	TP6B	A - 1	VR6009	A - 4
CF6C0	A - 3	L2003	B - 5	L6C8	B - 3	Q6002	B - 6	R6063	A - 3	TP6C	A - 1	VR6015	A - 7
		L2004	A - 3	L6C9	B - 3	Q6009	A - 6	R6067	A - 4	TP6D	A - 1	VR6024	A - 7
D2A0	B - 3	L2005	A - 4	L6D0	B - 3	Q6017	A - 7	R6A0	B - 3	TP6G	B - 1	VR6030	A - 7
D2A4	C - 2	L2006	A - 4	L6D1	B - 4	Q6034	A - 3	R6A1	B - 3	TP6H	A - 4	VR6C1	A - 1
D2A7	A - 4	L201	C - 6	L6D2	B - 4	Q6035	B - 3	R6A2	B - 3	TP6J	A - 7	VR6E9	A - 2
D2B2	C - 1	L205	B - 6	L6D3	B - 4	Q6036	B - 4	R6A9	B - 5	TP6K	B - 7	VR6F1	A - 2
D2B3	C - 4	L208	C - 6	L6D4	B - 4	Q6A1	B - 5	R6B2	B - 4	TP6L	A - 4	VR6J5	B - 4
D2B4	C - 4	L209	B - 7	L6D5	A - 2	Q6C3	A - 2	R6B3	B - 4	TP6M	B - 5	VR6K0	B - 4
D2B8	B - 1	L210	B - 7	L6D9	B - 1	Q6E4	A - 2	R6E8	A - 1	TP6N	B - 6	VR6K6	B - 4
D6000	A - 3	L211	B - 6	L700	C - 4	Q6T0	B - 5	R6F1	A - 2	TP6P	A - 1	VR6P9	B - 3
D6001	A - 4	L212	B - 6	L701	B - 5	Q6T1	B - 4	R6F4	A - 2	TP6S	A - 6	VR702	C - 5
D6003	B - 3	L214	C - 6	L702	C - 6	Q6Z4	A - 4	R6G7	B - 3	TP6T	A - 2	VR703	C - 5
D6004	A - 7	L286	C - 4	L703	C - 5	Q718	C - 5	R6G8	B - 2	TP6U	A - 3	VR704	A - 5
D6005	A - 4	L287	C - 4	L704	D - 5			R6G9	B - 3	TP6V	A - 4	VR705	B - 5
D6A1	B - 3	L288	C - 4	L705	C - 5	R2023	A - 4	R6M0	A - 2	TP6W	A - 3	VR706	B - 5
D6C0	A - 3	L289	C - 4	L706	A - 4	R244	B - 6	R6M8	A - 1	TP6X	A - 1	VR707	A - 4
D6C2	A - 1	L2A0	D - 4	L707	B - 5	R256	B - 7	R6P0	B - 4	TP6Y	A - 3		
D6C3	A - 2	L2A1	D - 4	L708	B - 5	R2C9	C - 1	R6P1	B - 4	TP70	C - 5	X6C0	A - 2
D700	C - 5	L2A3	C - 1	L709	B - 5	R2D2	B - 1	R6P3	B - 4	TP71	C - 5		
D701	C - 5	L2A4	C - 1	L710	C - 5	R2F2	C - 1	R6P4	B - 4	TP72	B - 5		
		L2A5	C - 1	L711	C - 5	R2J2	D - 1	R6P5	B - 4	TP73	B - 5		
DF2A0	D - 3	L2A6	D - 1	L714	A - 4	R2J3	C - 1	R6P6	B - 4	TP7G	A - 6		

SYMBOL NO.	ADDRESS	SYMBOL NO.
CF4A0	C - 7	IC4A3
CF5A0	B - 5	IC4A4
CF5A1	C - 5	IC4A5
		IC4A6
D4A0	A - 4	IC5001
D4A2	A - 4	IC5002
D4A2	B - 4	IC5A0
D4A3	B - 4	IC5A1
D4A4	B - 4	IC5A2
D4A5	B - 4	IC5A3
D4A6	B - 4	IC5A4
D4A7	B - 4	
D4A8	B - 3	L4A0
D4A9	B - 2	L4A1
D5A0	A - 5	L5A0
D5A1	A - 5	L5A1
D5A3	A - 2	L5A2
D5A4	A - 4	L5A5
D5A5	A - 5	
D5A6	C - 5	Q3B4
D5A7	B - 5	Q4A0
D5A8	B - 6	Q4A1
D5A9	B - 6	Q4A2
D5B0	A - 7	Q4A3
D5B1	B - 5	Q4A4
D5B2	B - 5	Q4A5
D5B3	B - 6	Q4A6
D5B4	B - 6	Q4A7
D5B5	C - 5	Q4A8
D5B6	B - 4	Q4A9
D5B7	C - 3	Q4B0
D5B8	A - 3	Q4B1
D5B9	A - 3	Q4B2
D5C0	A - 3	Q4B3
D5C1	A - 3	Q4B5
D5C2	A - 3	Q4B6
D5C3	B - 3	Q4B7
D5C4	A - 3	Q4B8
D5C5	A - 3	Q5A0
D5C6	A - 3	Q5A1
D5C8	A - 3	Q5A2
D5C8	B - 7	Q5A3
D5C9	A - 3	Q5A4
D5D0	A - 3	Q5A5
D5D1	B - 2	Q5A6
D5D2	B - 2	Q5A7
D5D3	B - 2	Q5A8
D5D4	B - 2	Q5A9
D5D5	B - 6	Q5B0
D5D6	A - 2	Q5B1
D5D7	B - 2	Q5B2
D5D9	B - 7	Q5B3
D5E0	A - 2	Q5B4
D5E1	C - 3	Q5B5
D5E2	B - 3	Q5B6
D5F0	A - 6	Q5B7
		Q5B8
IC4A0	C - 4	Q5B9
IC4A1	B - 3	Q5C0
IC4A2	A - 5	Q5C1

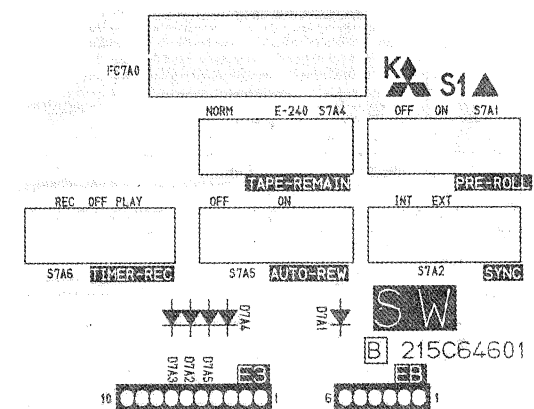
PCB TERMINAL



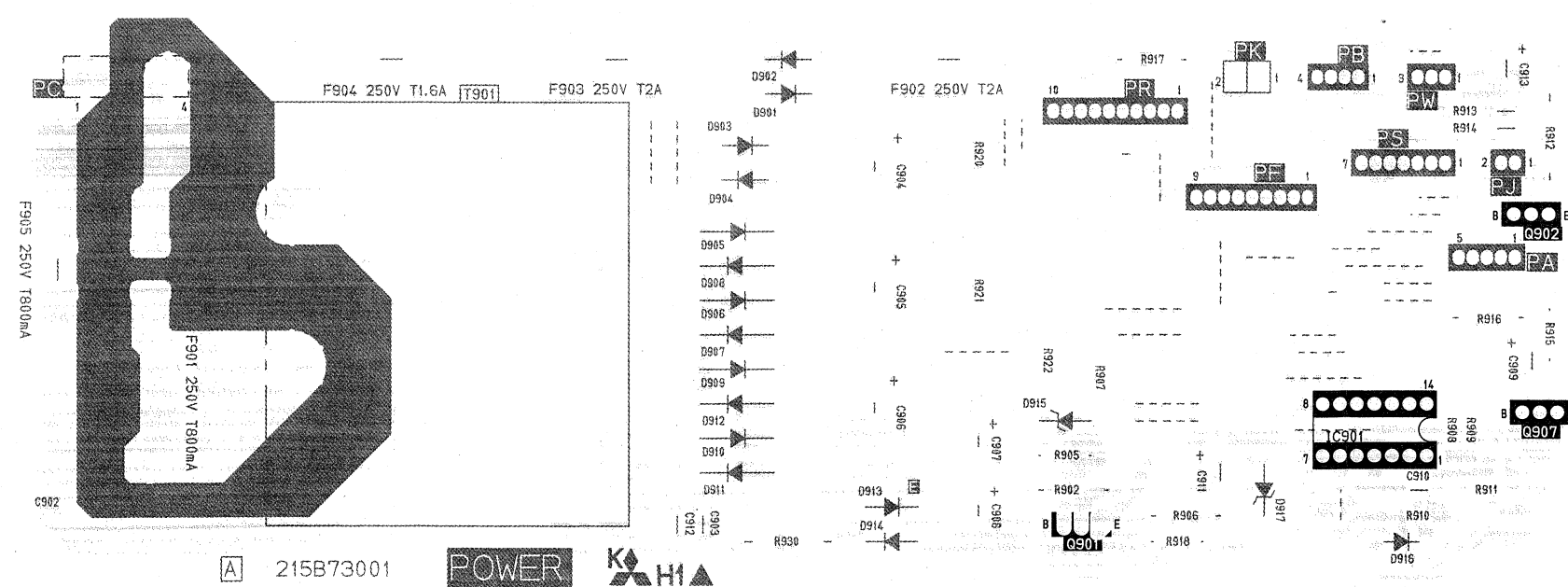
PCB HEAD-AMP



PCB SW



PCB POWER



PCB REMO

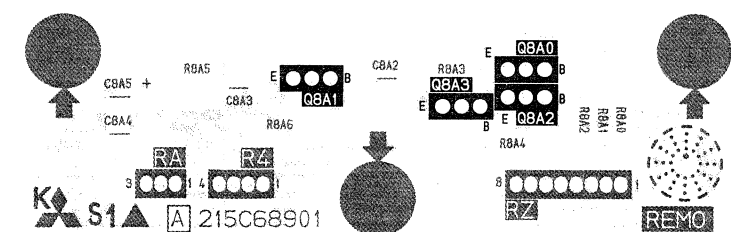
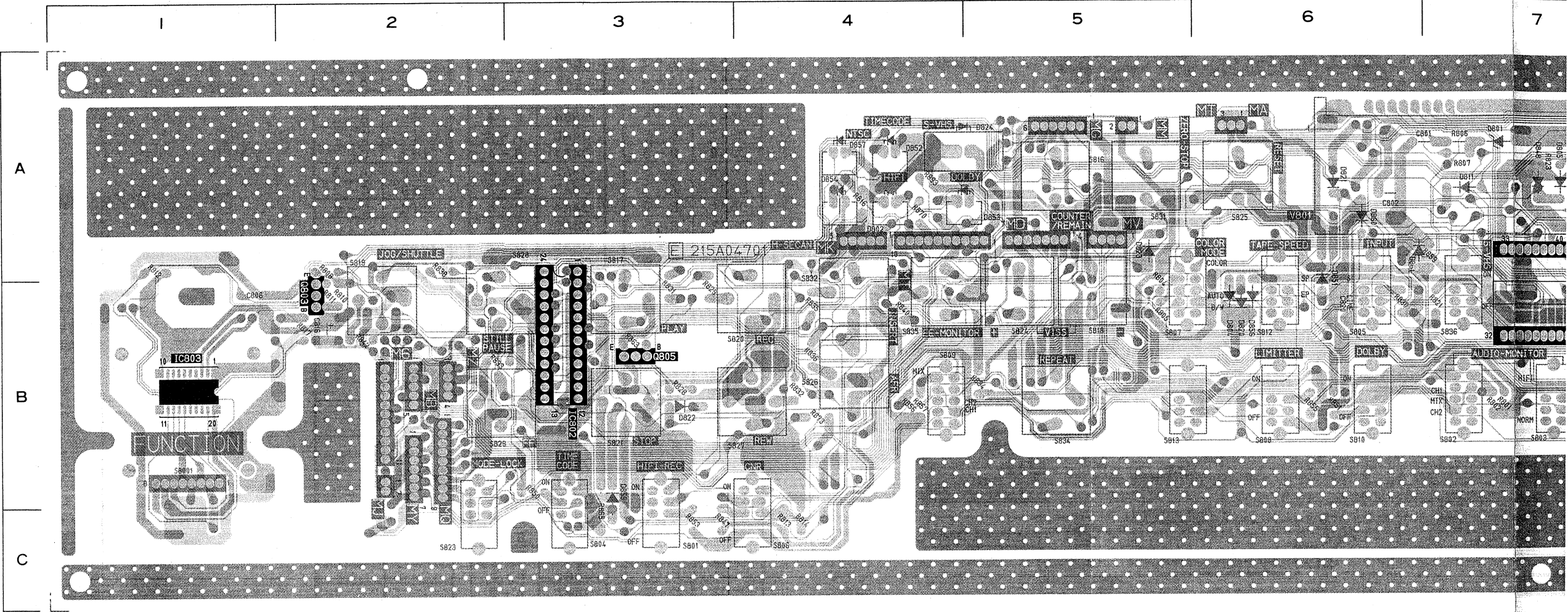


Figure 1 consists of three panels labeled A, B, and C. Panel A shows a dense grid of small, dark spots on a light background. Panel B shows a central region of the chip with a label 'IC803' and a 'FUNCTION' label. Panel C shows a dense grid of small, dark spots on a light background.

PCB FUNCTION



PCB-HEAD-AMP

A

B

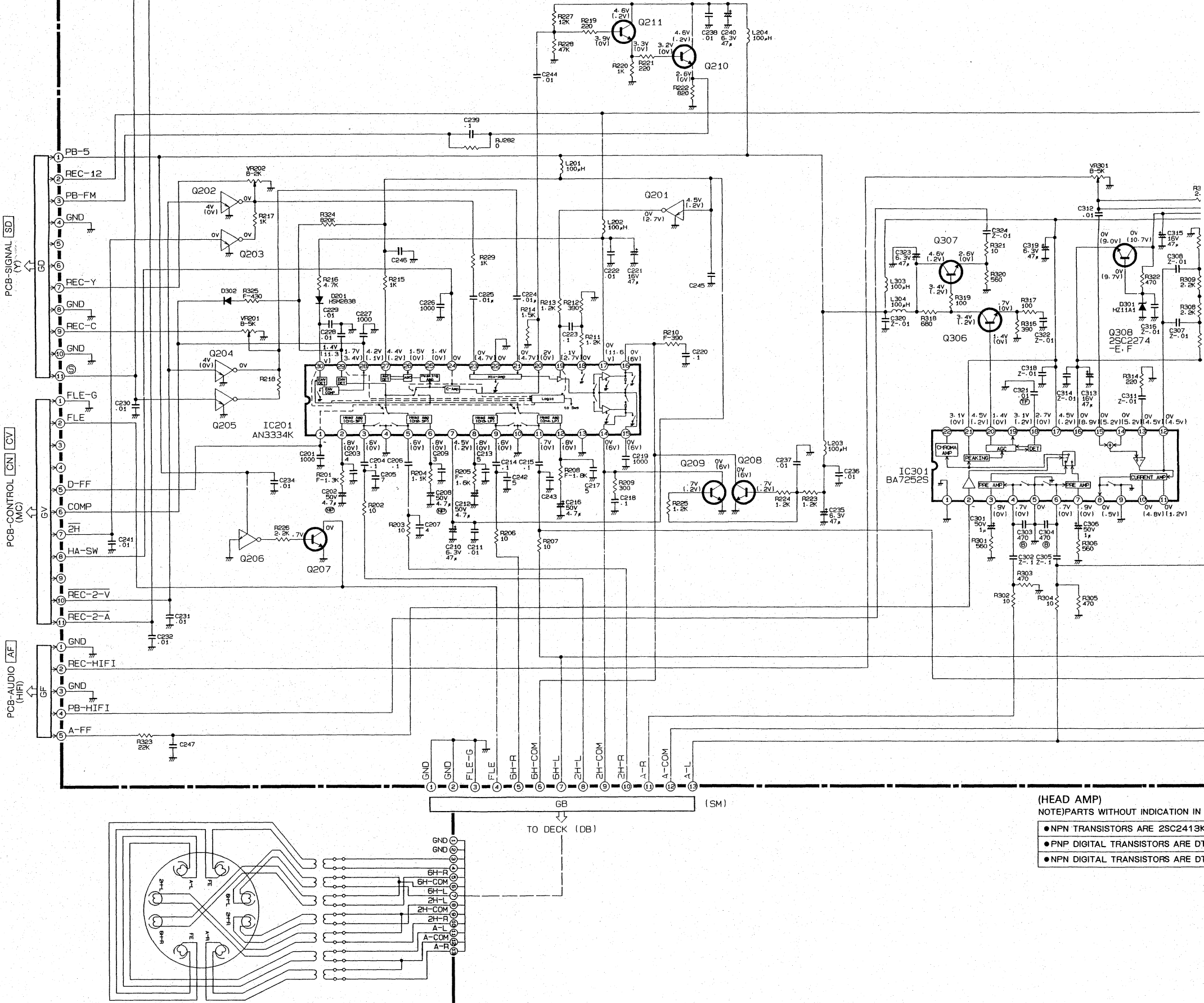
C

D

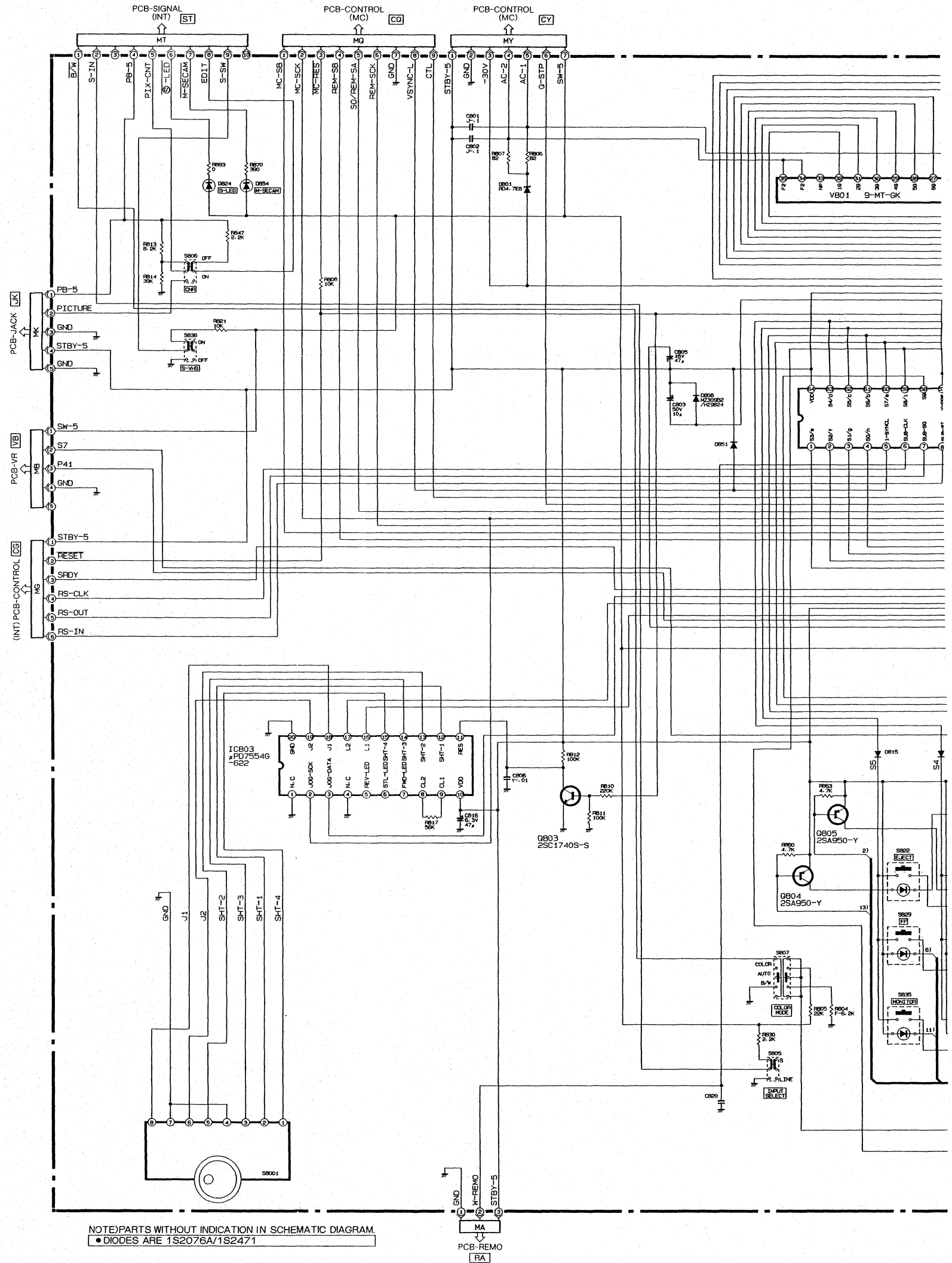
E

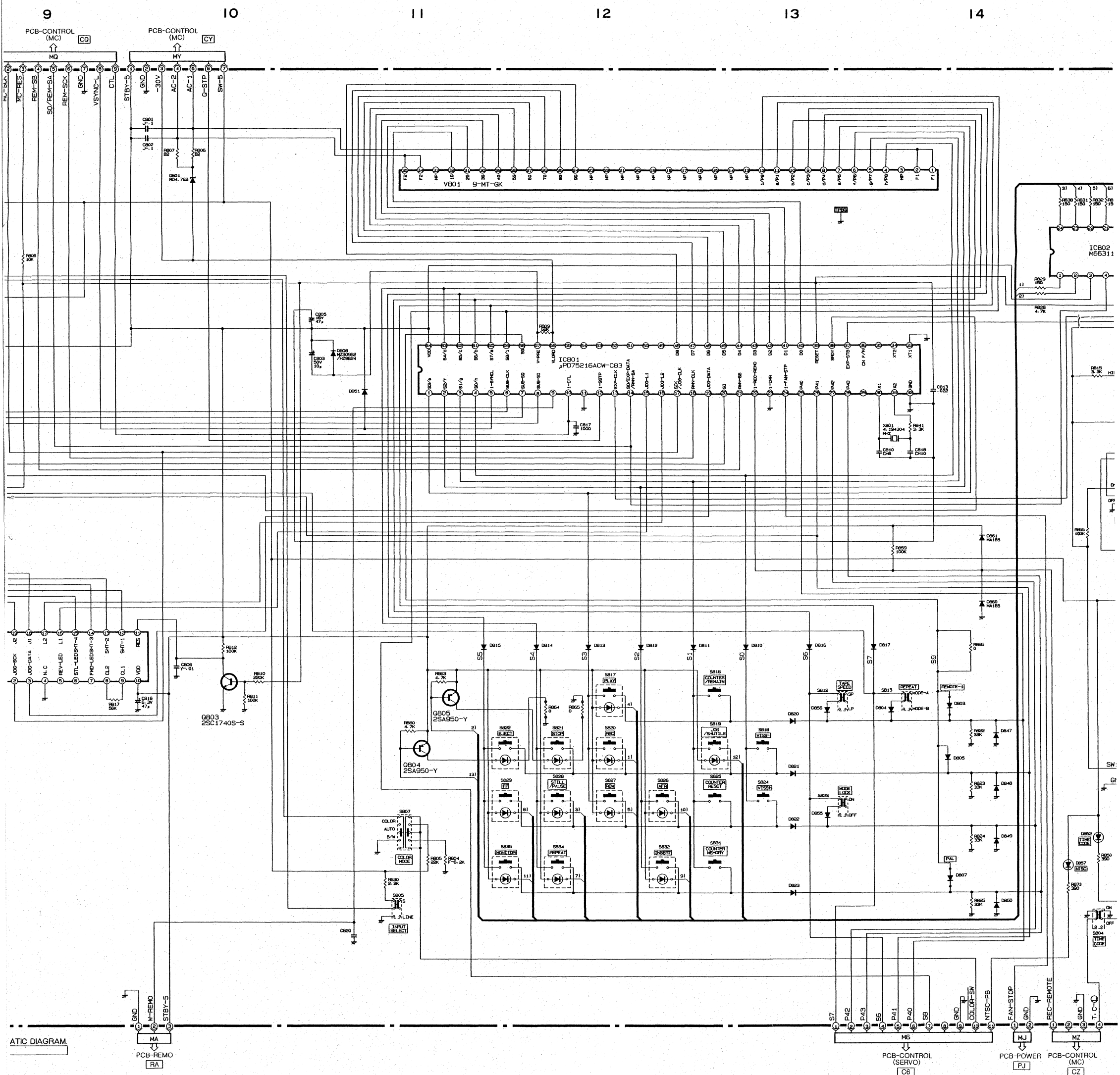
F

G



(HEAD AMP)
NOTE/PARTS WITHOUT INDICATION IN:
• NPN TRANSISTORS ARE 2SC2413K;
• PNP DIGITAL TRANSISTORS ARE DT;
• NPN DIGITAL TRANSISTORS ARE DT.





A

B

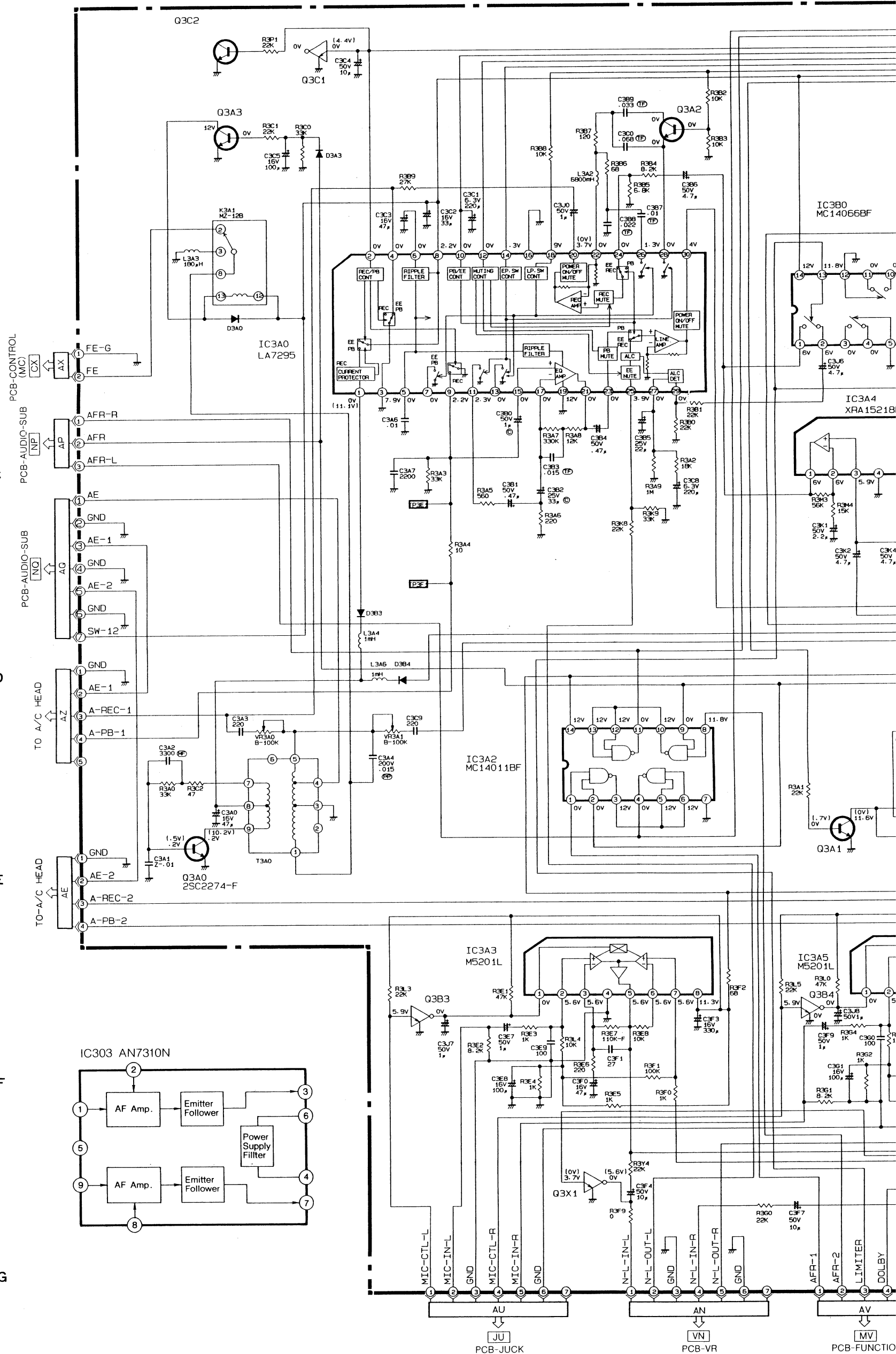
C

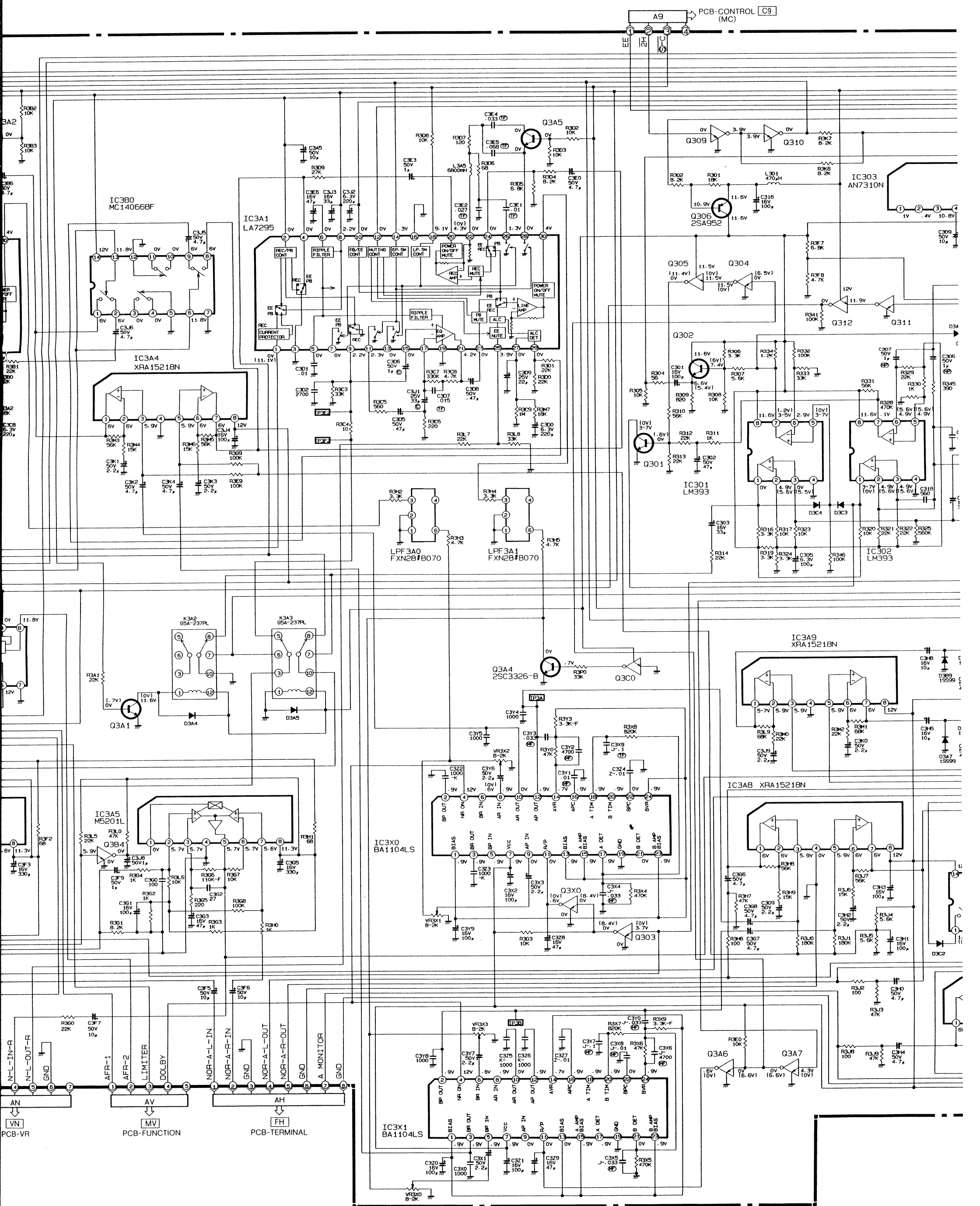
D

E

F

G







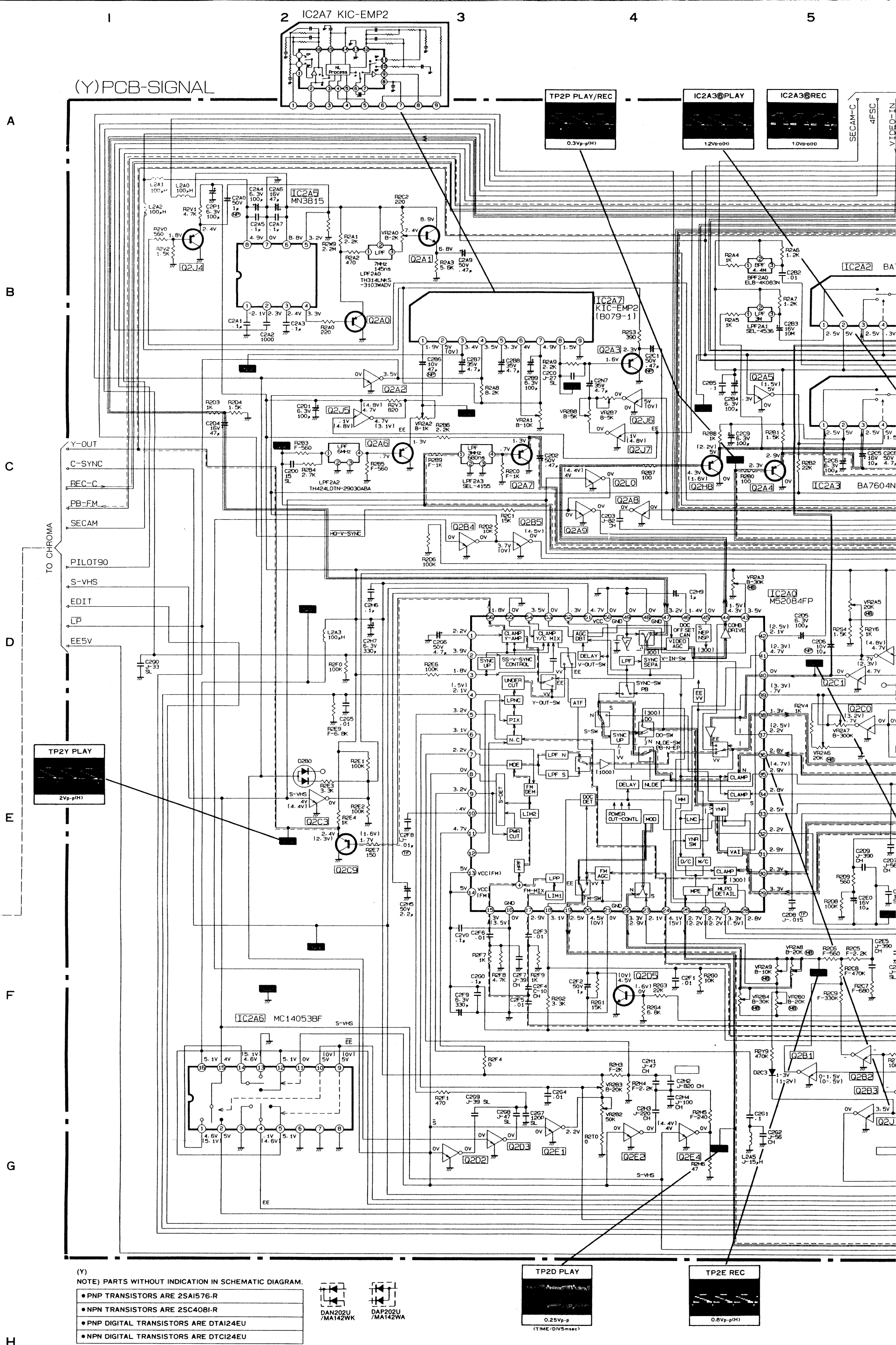


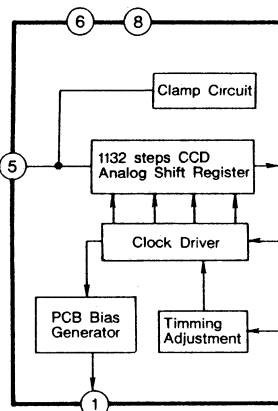
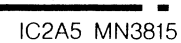
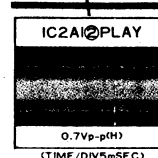
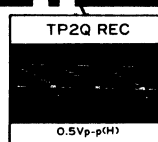
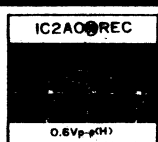
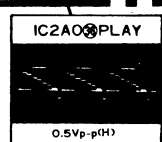
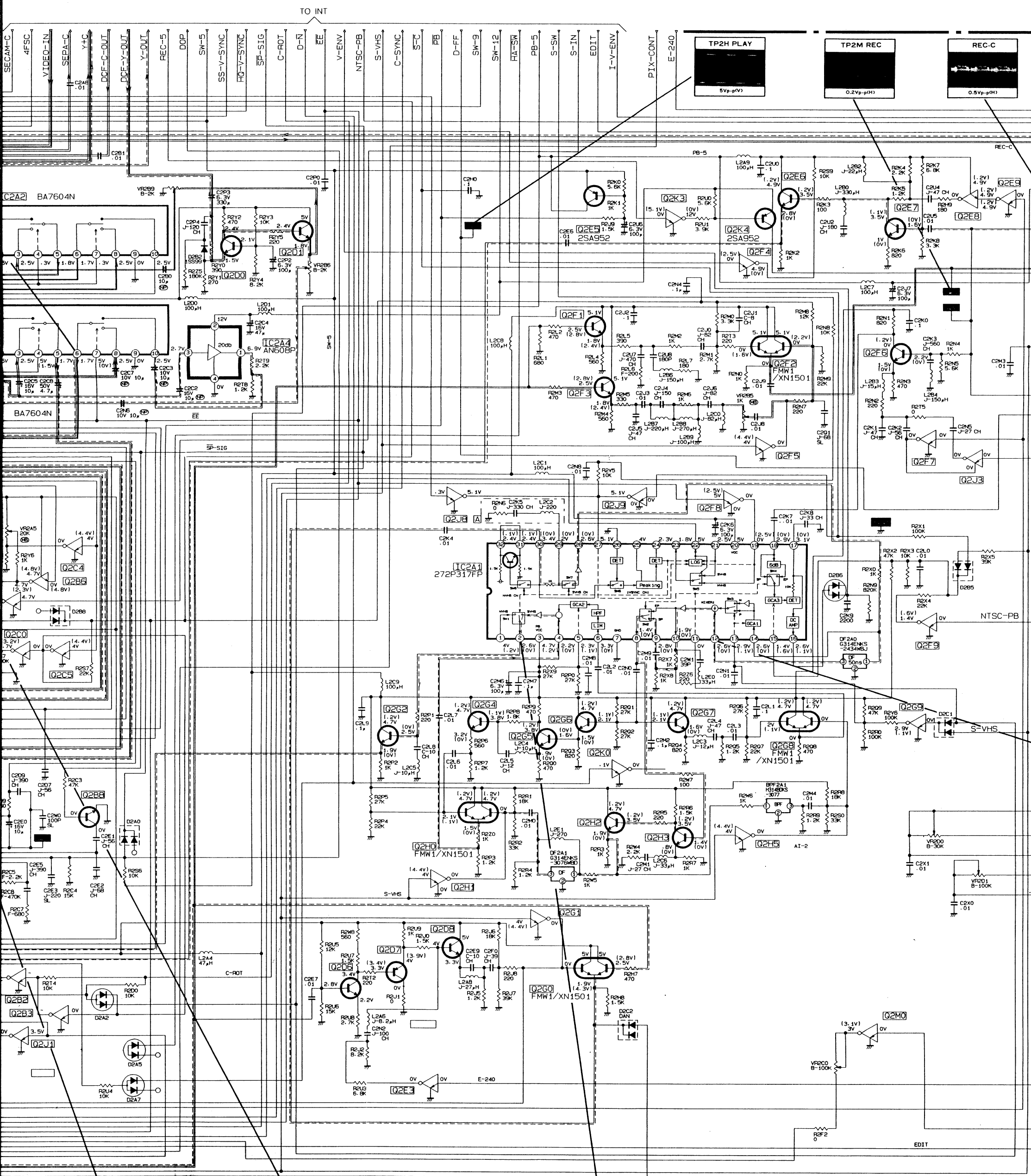
- PNP DIGITAL TRANSISTORS ARE DTA124EK
- NPN DIGITAL TRANSISTORS ARE DTC124EK



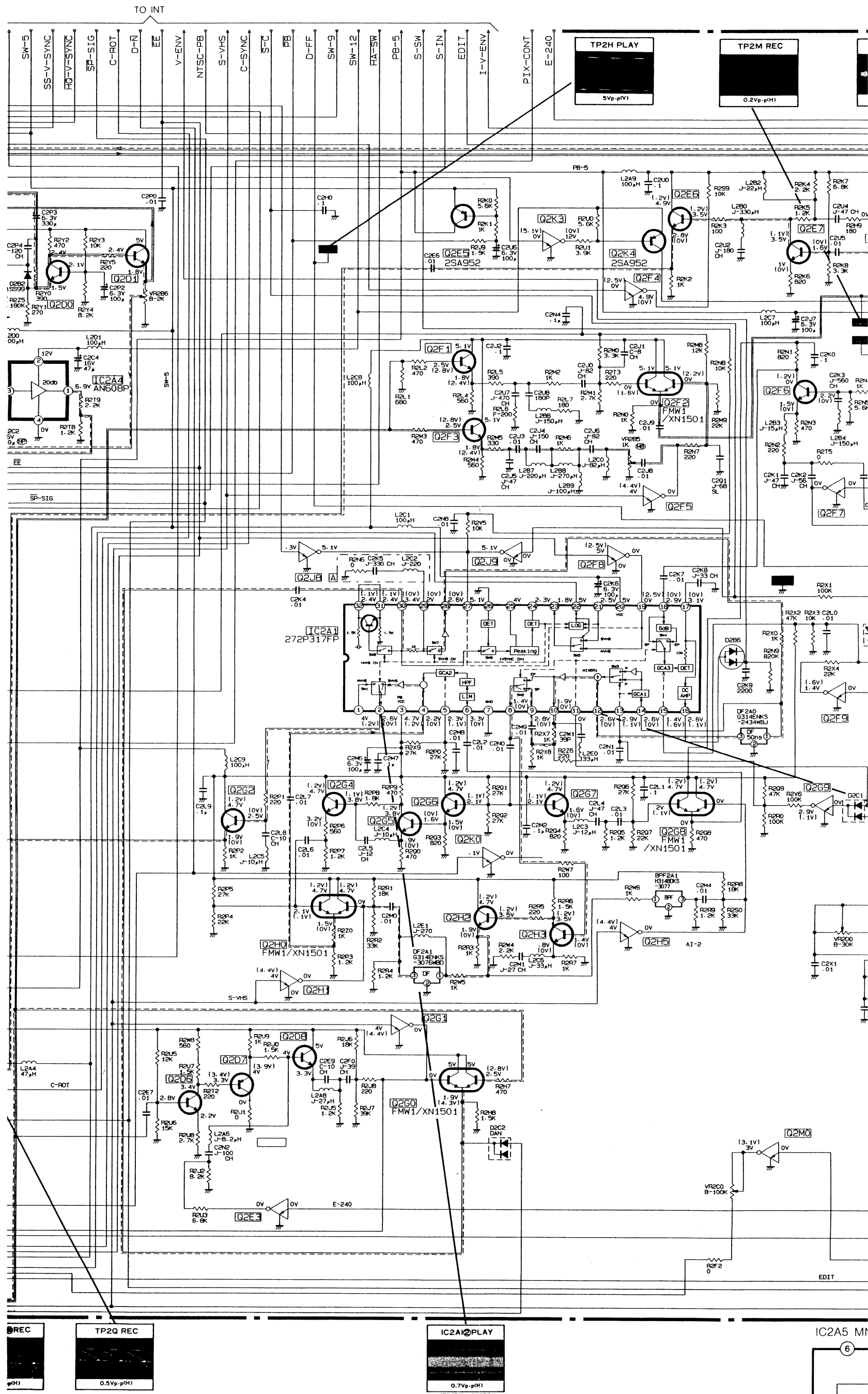
(AUDIO-SUB)
NOTE)PARTS WITHOUT INDICATION IN SCHEMATIC DIAGRAM

● DIODES ARE MA165





Recording of Luminance Signal
Playback of Luminance Signal
Recording of Colour Signal
Playback of Colour Signal



— Recording of Luminance Signal
 - - - Playback of Luminance Signal
 . . . Recording of Colour Signal
 - . - Playback of Colour Signal

IC2A5 MN

(6)

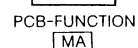
113 An

(5)

PCB Bias

Generator

(1)



(CHROMA)PCB-SIGNAL

A

B

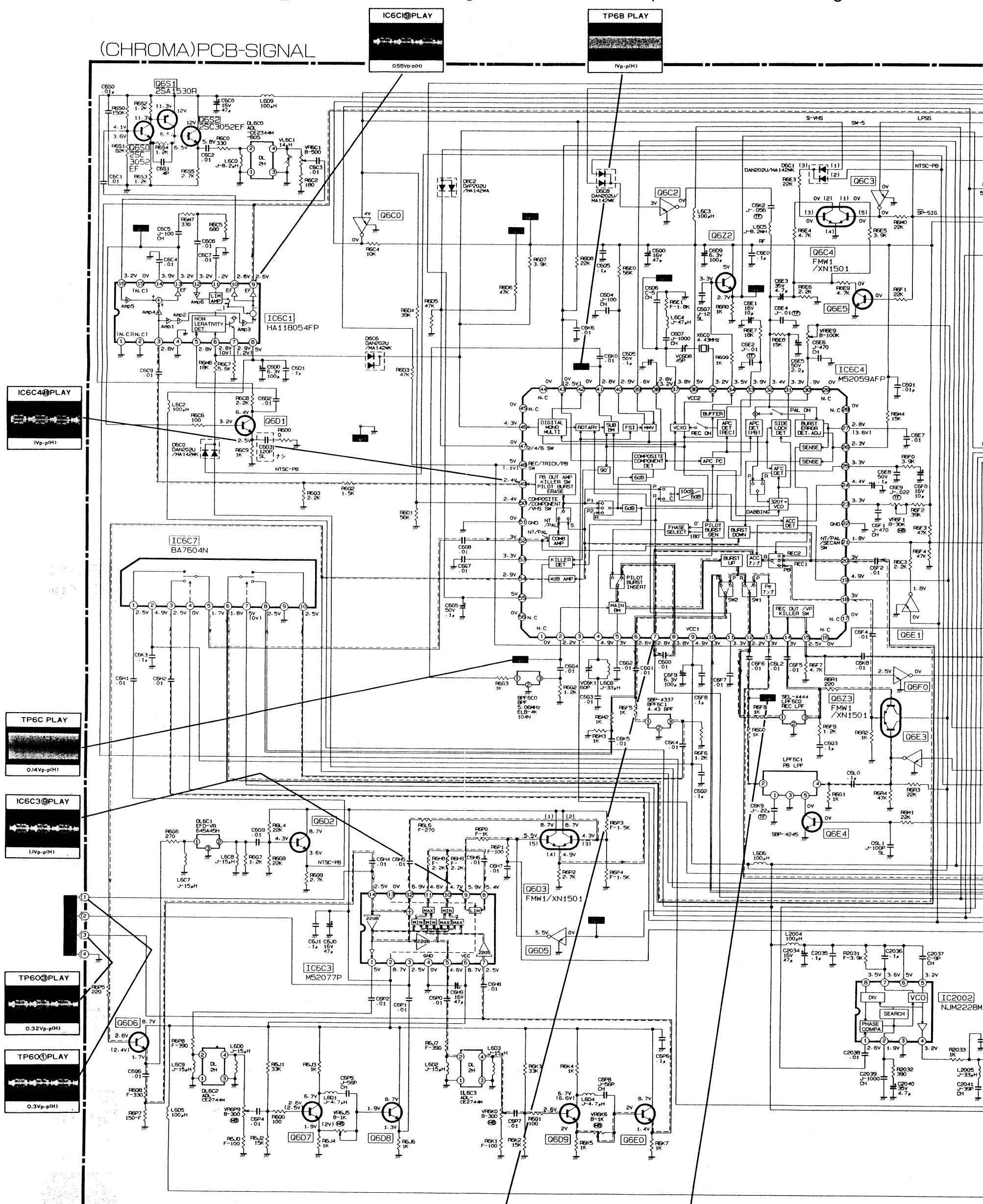
C

D

E

F

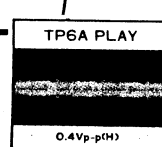
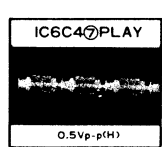
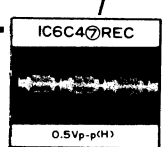
G

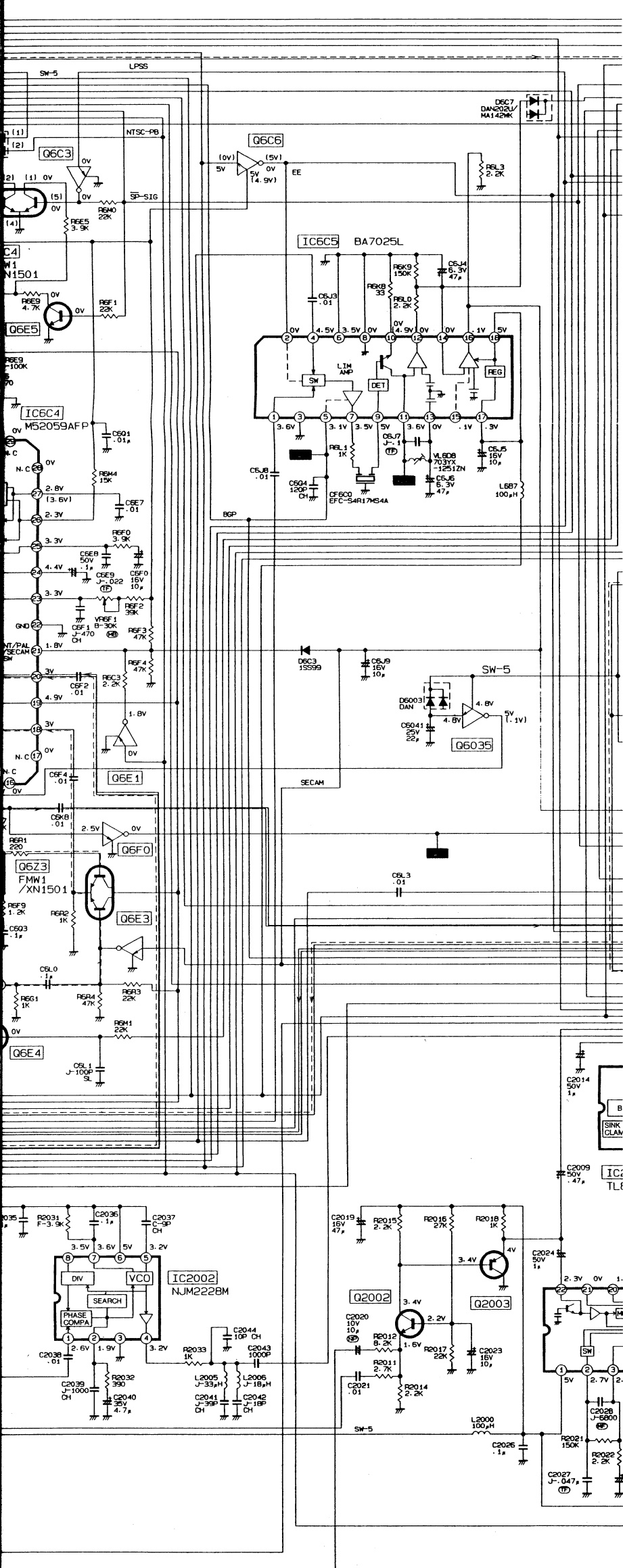


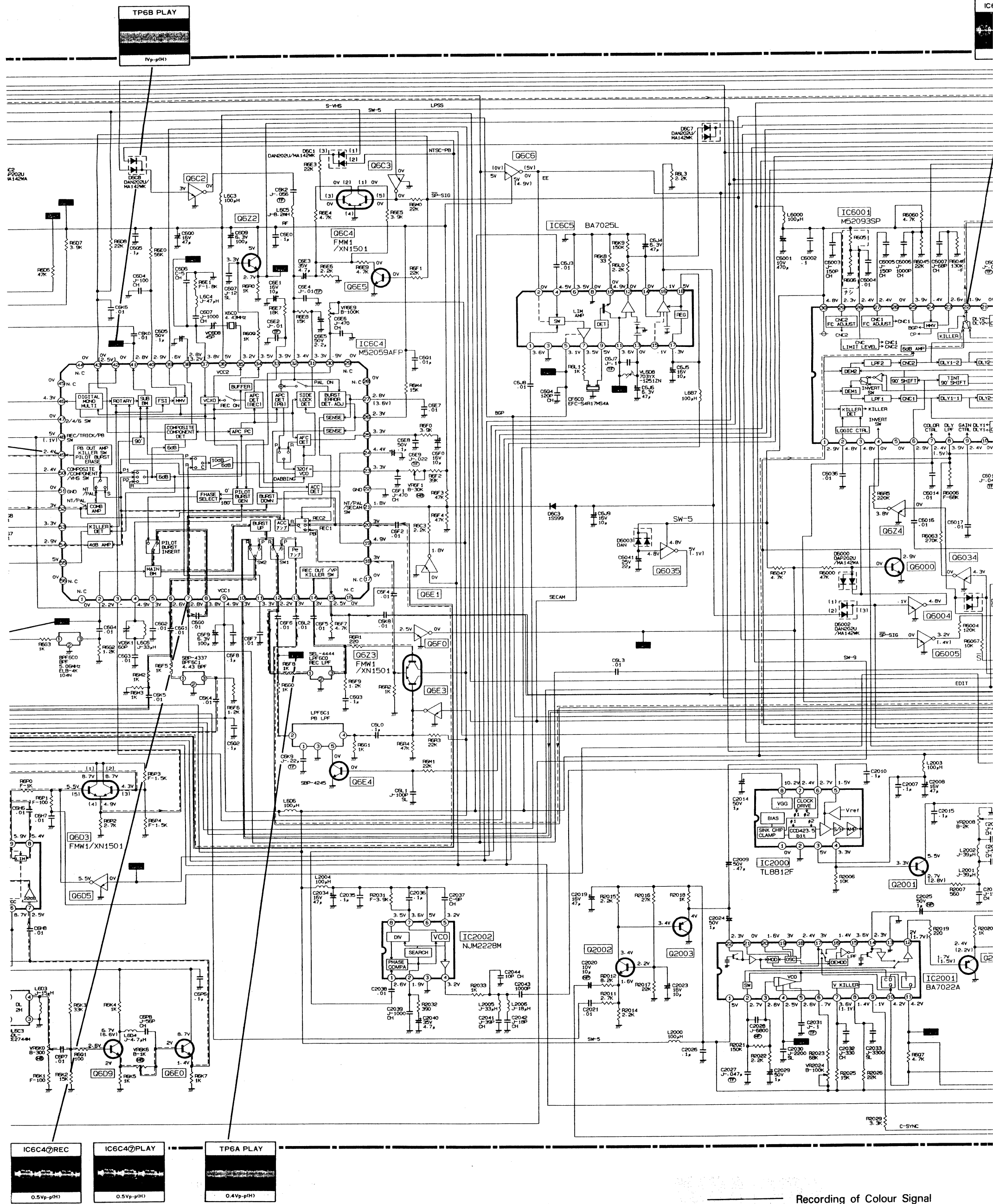
(CHROMA)

NOTE) PARTS WITHOUT INDICATION IN SCHEMATIC DIAGRAM.

- PNP TRANSISTORS ARE 2SA1576-R
- NPN TRANSISTORS ARE 2SC4081-R
- PNP DIGITAL TRANSISTORS ARE DTA124EU
- NPN DIGITAL TRANSISTORS ARE DTC124EU









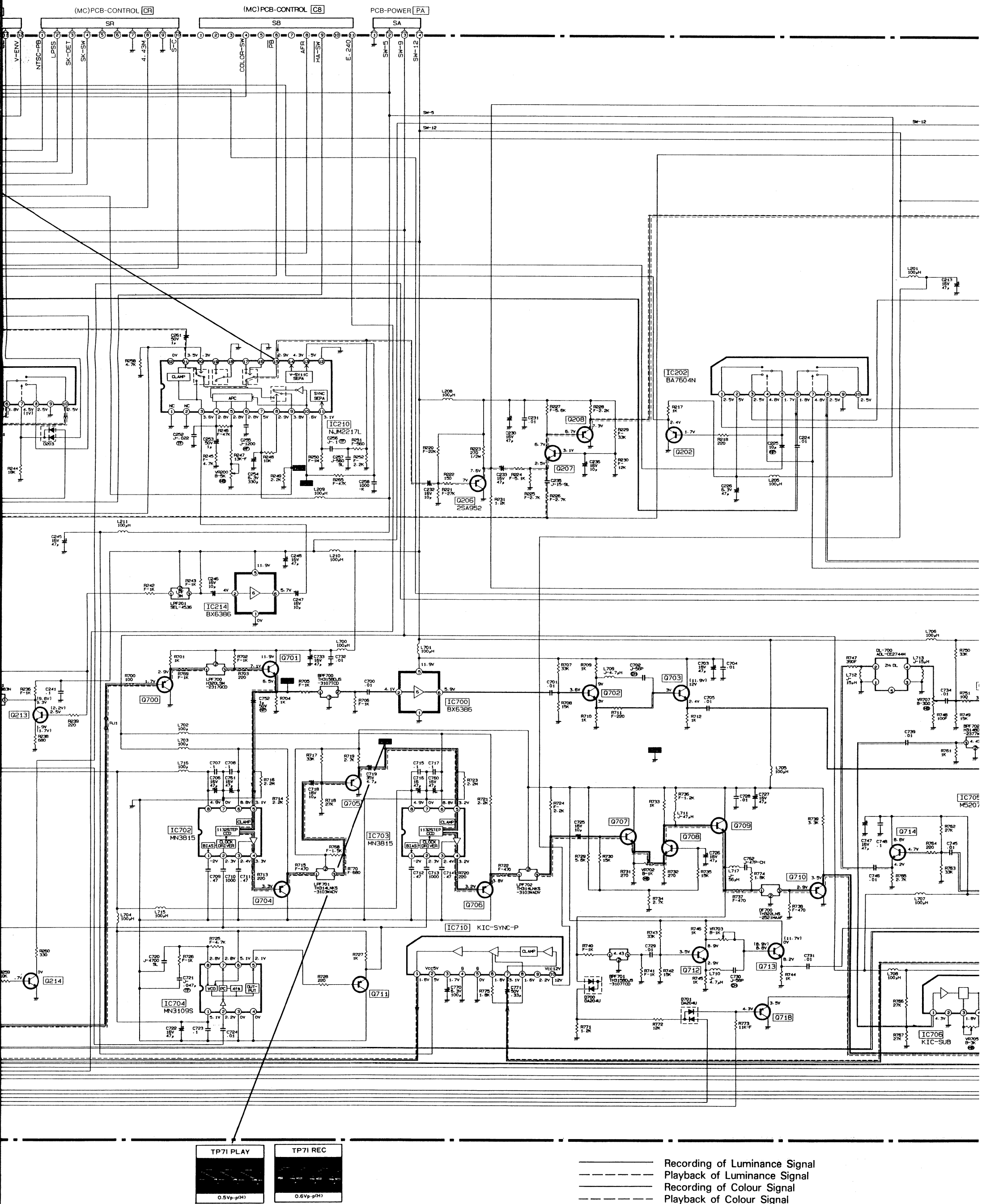
Recording of Colour Signal
Playback of Colour Signal

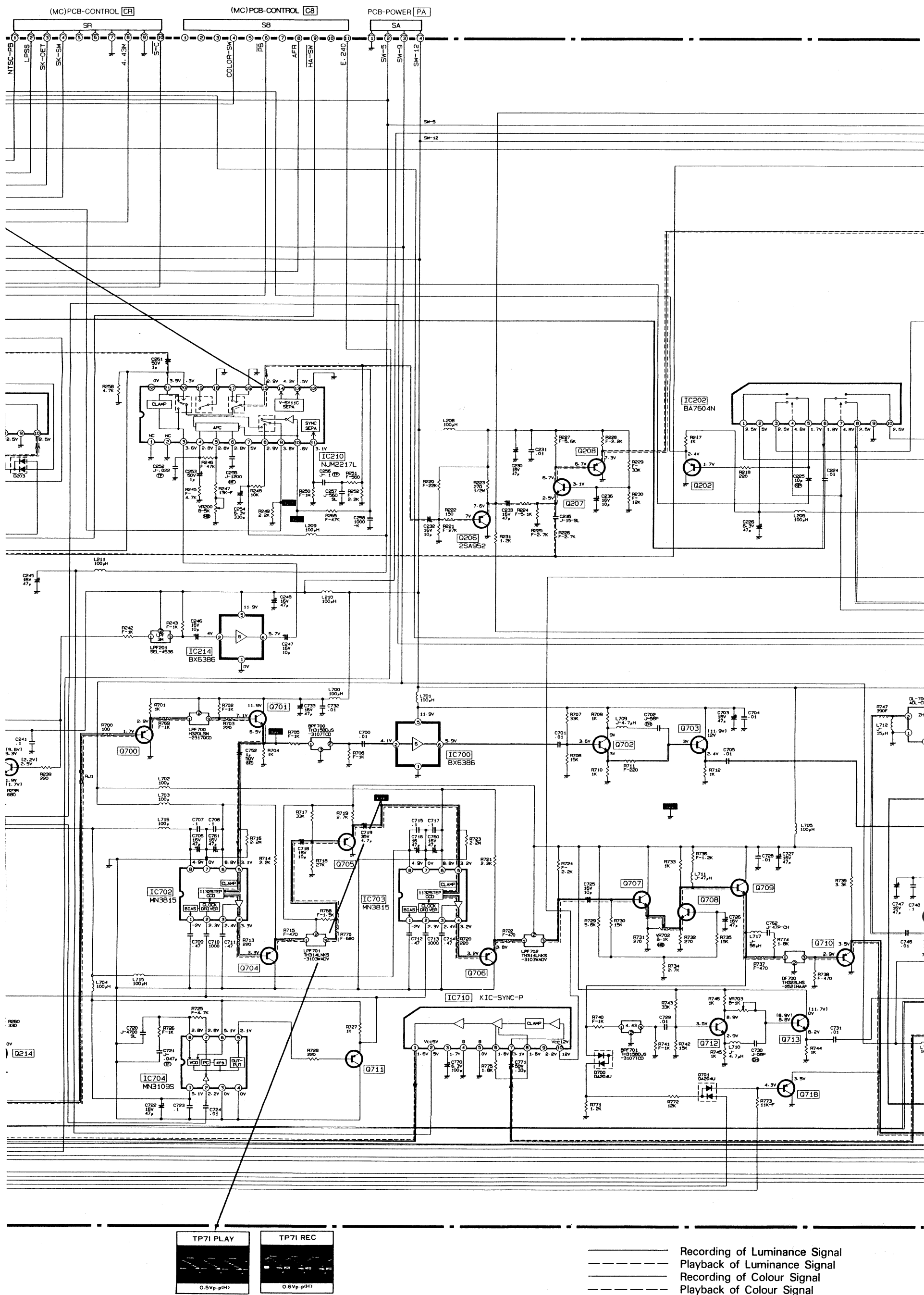


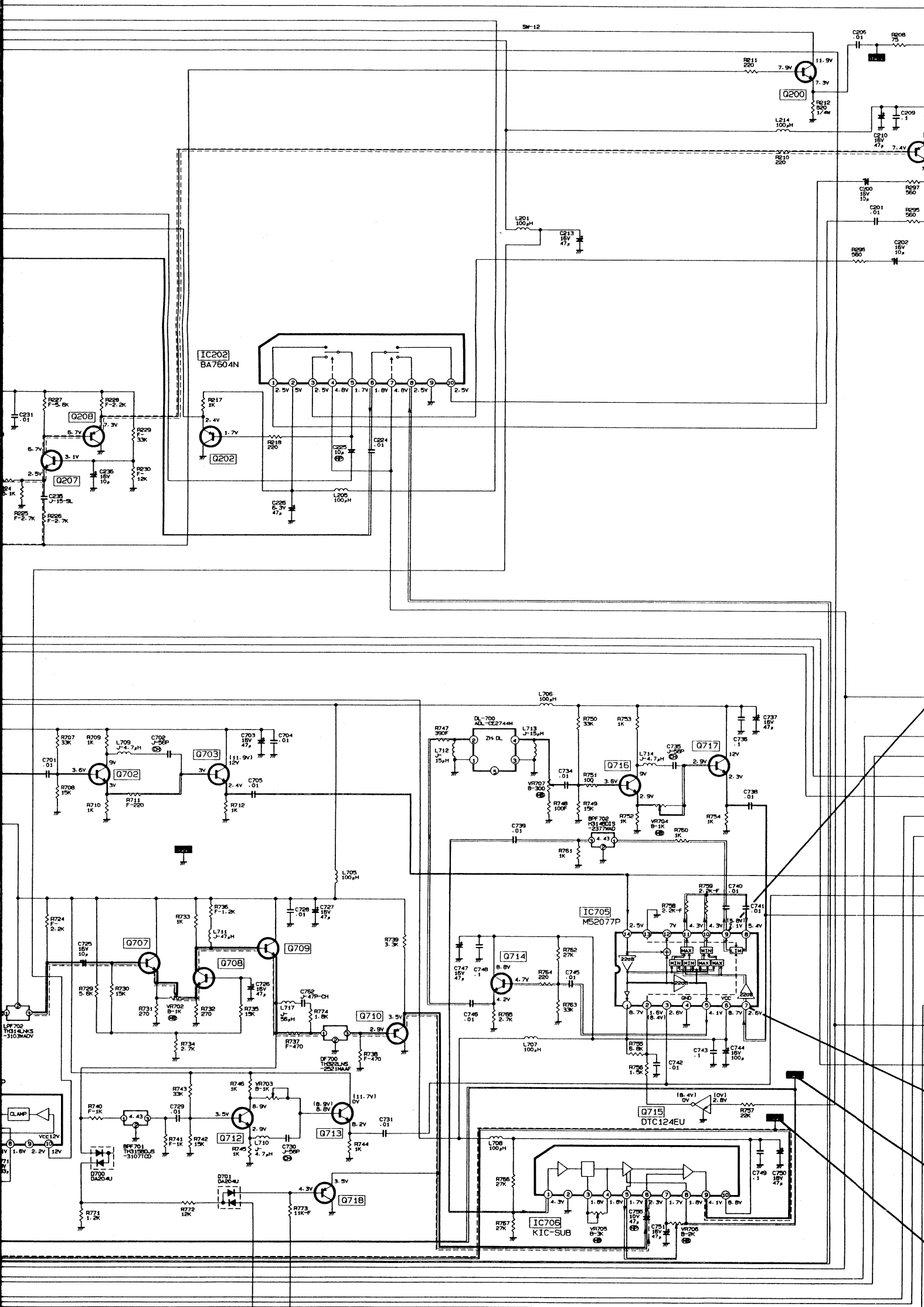


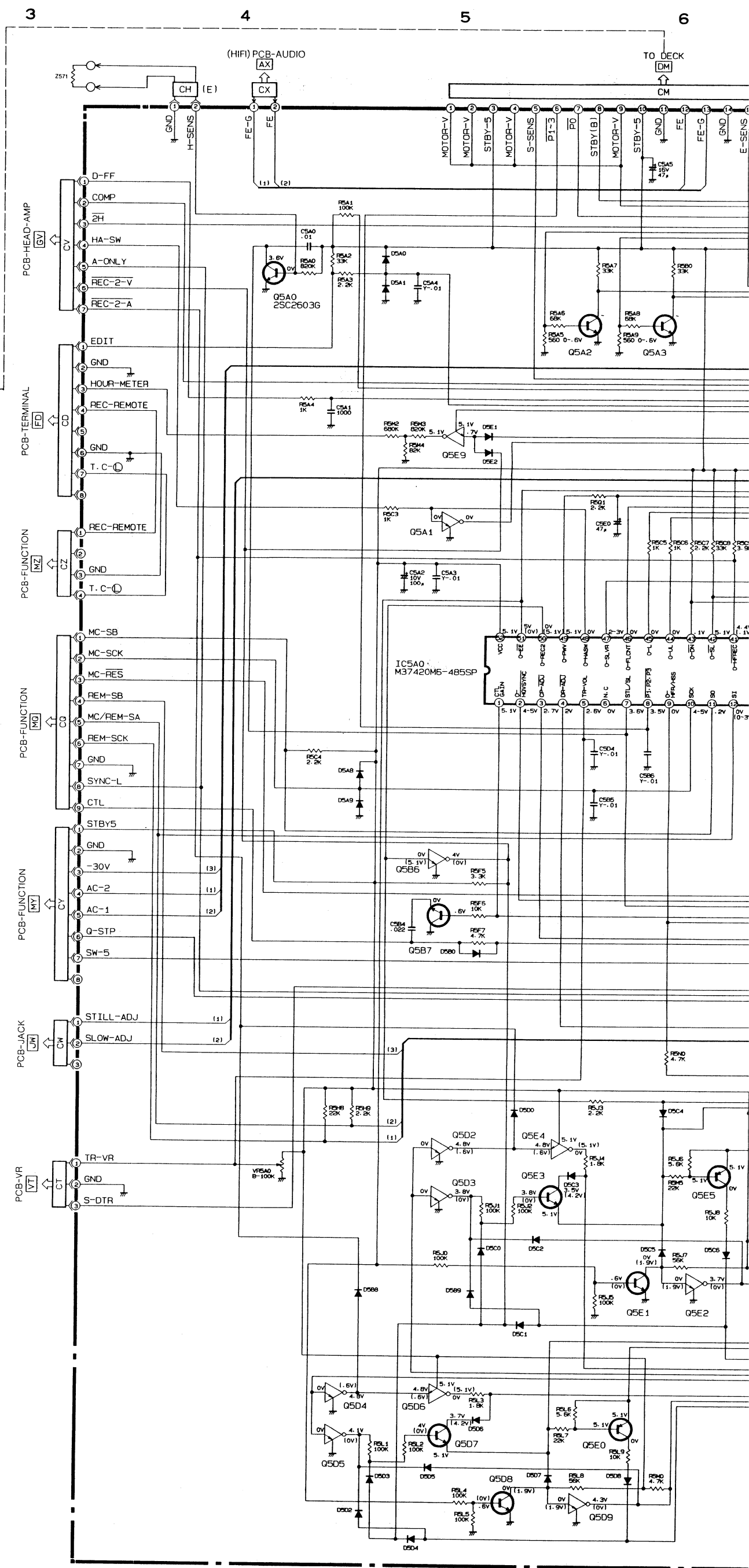
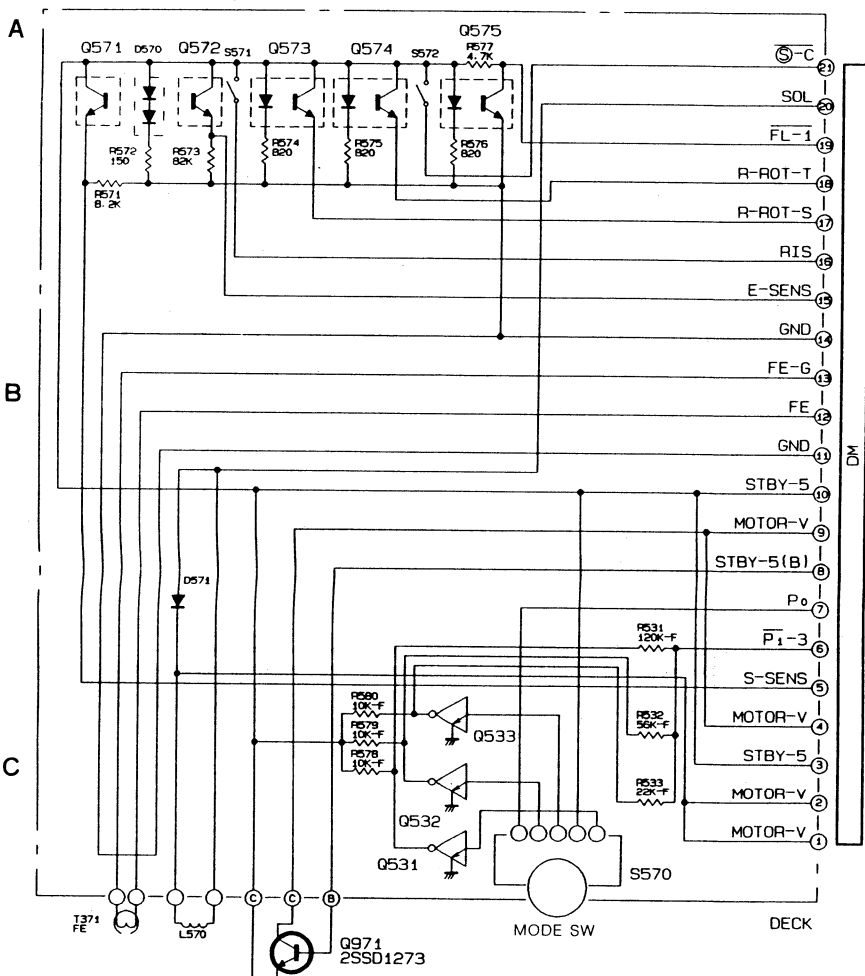
 **DAN202U
/MA142WK**

 **DAP202U
/MA142WA**









(MC)(SERVO)
NOTE)PARTS WITHOUT INDICATION IN SCHEMATIC DIAGRAM.

- | |
|--|
| ● DIODES ARE MA165 |
| ● PNP TRANSISTORS ARE 2SA933S-R,S |
| ● NPN TRANSISTORS ARE 2SC1740S-R,S |
| ● PNP DIGITAL TRANSISTORS ARE DTA124-ES/UN4112 |
| ● NPN DIGITAL TRANSISTORS ARE DTC124-ES/UN4212 |

